```
GenCore version 5.1.9
Copyright (c) 1993 - 2006 Biocceleration Ltd.
```

31
sw mode
ΝS
using
search,
protein
1
protein
Θ W

June 24, 2006, 01:58:45; Search time 14.2605 Seconds (without alignments) 1315.251 Million cell updates/sec	US-10-612-318-2
Run on:	Title: US-1

Perfect score: 4313 Sequence: 1 MEEVGGRWWGLKPRLAGLRG.......SSHPALHTTTEDSAGVQTEF 821

99297 seqs, 22845552 residues BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table: Searched:

Total number of hits satisfying chosen parameters: Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Published Applications AA New:*

1: RBMC Selerra SIDS3/ptodata/1/pubpaa/US09 NEW PUB.pep: 2: /BMC Celerra SIDS3/ptodata/1/pubpaa/US06 NEW=PUB.pep: 3: /BMC Celerra SIDS3/ptodata/1/pubpaa/US08 NEW PUB.pep: 4: /BMC Celerra SIDS3/ptodata/1/pubpaa/US08 NEW PUB.pep: 5: /BMC Celerra SIDS3/ptodata/1/pubpaa/US08 NEW PUB.pep: 6: /BMC Celerra SIDS3/ptodata/1/pubpaa/US10 NEW PUB.pep: 7: /BMC Celerra SIDS3/ptodata/1/pubpaa/US10 NEW PUB.pep: 7: /BMC Celerra SIDS3/ptodata/1/pubpaa/US10 NEW PUB.pep: 8: /BMC Celerra SIDS3/ptodata/1/pubpaa/US60 NEW PUB.pep: 9: /BMC CELerra SIDS3/ptodata/1/pubpaa/US60 NEW PUB.pep: 9: /BMC CELerra SIDS3/ptodata/1/pubpaa/US90 NEW PUB.pep: 9: /BMC CELerra SI Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		ako (
٥ تــ	Score	Matro	Length	DB	ID	Description
	658.5	15.3	383	7	US-11-293-697-3206	Seguence 3206, Ap
7	522.5	Σ,2	620	7	US-11-293-697-4145	Sequence 4145, Ap
٣	225	5.2	547	9	US-10-449-902-39758	Sequence 39758, A
4	158	3.7	1949	7	US-11-289-102-317	Seguence 317, App
2	154	3.6	675	9	US-10-449-902-48447	4844
9	154	3.6	675	9	US-10-449-902-50618	Sequence 50618, A
7	145	3.4	1259	7	US-11-223-945-40	Sequence 40, Appl
80	142.5	3.3	210	9	US-10-953-349-23295	232
σ	138.5	3.2	471	7	US-11-293-697-2588	2588
10	136.5	3.2	3113	9	US-10-505-928-325	Sequence 325, App
11	135.5	3.1	911	9	US-10-449-902-50530	5053
12	134	3.1	190	9	US-10-953-349-15678	Sequence 15678, A
13	134	3.1	210	9	US-10-953-349-15676	Sequence 15676, A
14	134	3.1	849	9	US-10-953-349-1432	
15	134	3.1	1003	ဖ	US-10-953-349-1431	Seguence 1431, Ap
16	134	3.1	1392	9	US-10-953-349-1430	
17	133.5	3.1	1234	7	US-11-327-900-6	Sequence 6, Appli
18	133.5	3.1	1384	ø	US-10-505-928-799	Sequence 799, App
19	130.5	3.0	788	9	US-10-449-902-41167	4116
20	128	3.0	240	9	US-10-953-349-18175	
21	128	3.0	246	Q	US-10-953-349-18174	Sequence 18174, A
22	127	2.9	698	9	US-10-449-902-53993	Sequence 53993, A
23	126.5	2.9	681	9	US-10-953-349-10919	Sequence 10919, A
24	126.5	2.9	1328	9	US-10-504-973-32	Sequence 32, Appl
25	126.5	2.9	1570	7	US-11-312-958-38	38,

Sequence 44646, A Sequence 54377, A	Sequence 36779, A Sequence 48345, A	Segmence 2469, Ap	Sequence 56, Appl	Sequence 3673, Ap	Sequence 3458, Ap	Sequence 296, App	Sequence 8848, Ap	Sequence 54834, A.	Sequence 51123, A	Sequence 801, App	Seguence 56644, A	Seguence 30106, A	Seguence 36375, A	Sequence 33743, A	Seguence 33742, A	Sequence 53231, A	
US-10-449-902-44646 US-10-449-902-54377	US-10-449-902-36779 US-10-449-902-48345	US-11-293-697-2469	US-11-312-958-56	US-11-293-697-3673	US-11-293-697-3458	US-11-289-102-296	US-10-953-349-8848	US-10-449-902-54834	US-10-449-902-51123	US-10-505-928-801	US-10-449-902-56644	US-10-449-902-30106	US-10-449-902-36375	US-10-953-349-33743	US-10-953-349-33742	US-10-449-902-53231	
931 6 931 6	70 6.	599 7		12 7	20 7	80 7	87 6	71 6	929 6	_	490 6	_	51 6	169 6	23 6	41 6	
9 9		2.0								_							
126	125.5	125	124.5	123.5	123	123	122.5	122.5	122.5	122	121.5	121.5	121	120:5	120.5	120	
26	28	18,5	35	33	34	35	36	37	38	39	40	41	42	43	44	45	

ALIGNMENTS

셤 ò

```
RESULT 4
US-11-289-102-317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SKIRAFILPKAEVCVRNHVQPYIPSILEALMVPTSQGFTEVRDVFFKEVTDMNLNVINEG 455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        514 EOMDNAVYTFETLLHQELGKGPTKEELCKSIORVLERVLKKYDYDSSSVRKRFFREALLQ 573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      574 ISIPFLLKKLAPTCKSELPRFQELIFEDFARFILVENTYEEVVLQTVMKDILQAVKEAAV 633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           503 İFLPPVLSQLEPGCKKELPEFEGDVLAVGSQALTTEGIYEDVIRGCLLQRIDQELKKTLG 562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    634 ORKHNLYRDSMVMHNSDPNLHLLAEGAPIDW----GEEYSNSGGGGSPSPSTPESATLSE 689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : | : | : | | : | | : | | : | | : | | : | | : | | : | | : | | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99 ILTEFLOFYEDOYGVALFNSMRHEIEGTGLPQAQLLWRKVPLDERIVFSGNLFQHQEDSK 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KWRNRFSLVPHNYGLVLYENKAAYERQVPPRAVINSAGYKILTSVDQYLELIGNSLP--- 215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTTAKSGSAPILKCPTQFPLILWHPYARHYYFCMMTEAEQDKWQAVLQDCIRHCNNGIPE 275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           203 SQAPAARAFLDAVRLYRQHQGHFGDDDVTLGSDAEVLTAVLMREQLPALRAQTLPGLRGA 262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      336 PQERQRQWIQISDAVYHMVYEQAKARFEEVLSKVQQVQPAMQAVIRTDMDQIITSKEHLA 395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              323 GRLRTDIRGPLESCLRREVDPQLFRVVQTLLRTVBASLEAVRTLLAQGMDRLSHRLRQSP 382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            :|: | :: : | |: :| || RWQPIFCVLRGDGRLEWFSHKEEYENGGHCLGSTALTGYTLLTSQREYLRLLDALCPESL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           276 DSKVEGPAFTDAIRMYRQSKELYGTWEMLCGNEVQILSNLVMEELGPELKAELGPRLKGK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GIDKLGEYMEKLSRLAYHPLKMQSCYEKMESL - - RLDGLQQRFDVSSTSVFKQRAQIHMR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24 LIRNFLPCYRGOLAASVLROISREL-GPOEPTGSOLLRSKKLPRVREHRGPLTOLRGHPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
NLYRDSMVMHNSDPNLHLLAEGAPIDWGEEYSNSGGGGSPSPSTPESATLSEK 690
                                                 49;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 7; Length 620;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           l2.1%; Score 522.5; DB 7;
Best Local Similarity 24.7%; Pred. No. 8.5e-24;
Matches 156; Conservative 108; Mismatches 318;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KRRRAKQVVSVVQDEEVGLPFEASPESPPPA 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -----OIQPLCPPPS 614
                                                                                                                                                                                                                                      Sequence 4145, Application US/11293697
Publication No. US2006010537641
GENERAL INFORMATION:
TITLE OF INVENTION: Novel full length cDNA
FILE REFRENCE: HI-A0106
CURRENT APPLICATION NUMBER: US/11/293,697
CURRENT PILING DATE: 2005-12-05
PRIOR APPLICATION NUMBER: US/10/108,260
PRIOR PILING DATE: 2002-03-28
NUMBER OF SEQ ID NOS: 5458
SOFWMARE: PATENTIN Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ANDVSCTLDSCL--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Homo sapiens
                                                                                                                                                                                                                          US-11-293-697-4145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 :1-293-697-4145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 4145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   396
           638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Db
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
```

Б ð g ò 셤 ö g ઠ

g ò g ò

ξ,

ò g

```
371 QVQPAMQAVIRTDMDQIITSKEHLASKIRAFILPKAEVCVRNHVQPYIPSILEALMVPTS 430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ::|| | :|| | :| | | : | | 312 DAQASVQAKILEMVDK--PSKDAIGEK---------VAPHLNPLLDIIFAPVN 353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98 KILTBFLQFYEDQYGVALFN-SMRHEIEGTGLPQAQLLWRKVPL----DERIVFSGNLF 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    211 GNSLPGTTAKSGSAPILKCPTQFPLILWHPYARHYYFCMMTEAEQDK-WQAVLQDCIRHC 269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       135 LDLAKKCNLNVDDLPKPEVLPDFSLEIHHE-TREIVLLQCENADDHKSWCDILDDC-RWY 192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   270 NNGIP-EDSKVEGPAFTDAIRMYRQSKELYGTWEMLCGNEVQI---LSNLVMEELGPELK 325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: National Institute of Agrobiological Sciences.
APPLICANT: National Institute of Agrobiological Sciences.
APPLICANT: Bio-oriented Technology Research Advancement Institution.
APPLICANT: The Institute of Physical and Chemical Research.
APPLICANT: The Institute of Physical and Chemical Research.
APPLICANT: Foundation for Advancement of International Science.
TITLE OF INVENTION FULL-ENGITH PLANT CDNA AND USES THEREOF
FILE REFERENCE: WAA-AQ20571-US
CURRENT APPLICATION NUMBER: US/10/449,902
CURRENT FILING DATE: 2003-05-29
PRIOR FILING DATE: 2003-05-29
PRIOR FILING DATE: 2002-05-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       431 QGFTEVRDVFPKEVT------DMNLNVINEGGIDKLGEYMEKLSRLAYHPL-KMQS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   480 CYEKMESIRLDGLQQRFDVSSTSVFKQRAQIHMREQMDNAVYTFETLLHQELGK-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               534 -GPTKEEL---CK-SIQRVLERVL---KKYDYDSSSVRKRFFREALLQISIPFLLKKLAP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              152 QHQEDSKKWRNRFSLVPHNYGLVLYENKAAYERQVPPRAVINSAGYKILTSV-DQYLELI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery Match 5.2%; Score 225; DB 6; bength 547; Best Local Similarity 21.1%; Pred. No. 3.2e-06; Andeches 121; Conservative 105; Mismatches 235; Indels 112;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         586 TCKSELPRFQELIFEDFARFILVENTYEEVVLQ 618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P-----ED----ED----ILERTLNNILLQ 532
; Sequence 39758, Application US/10449902; Publication No. US20060123505A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 39758
LENGTH: 547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  , ORGANISM: Oryza sativa
US-10-449-902-39758
```

```
GenCore version 5.1.9
Copyright (c) 1993 - 2006 Biocceleration Ltd.
```

June 24, 2006, 01:56:20 ; Search time 38.7072 Seconds (without alignments) 1856.571 Million cell updates/sec OM protein - protein search, using sw model Run on:

US-10-612-318-2 4313 1 MEEVGGRWWGLKPRLAGLRG......SSHPALHTTTEDSAGVQTEF 821 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

650591 Total number of hits satisfying chosen parameters:

650591 seqs, 87530628 residues

Searched:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Issued Patenbs AA:*

1. /BMC_Celerra_SIDS3/ptodata/2/iaa/5_COMB.pep:*

2. /BMC_Celerra_SIDS3/ptodata/2/iaa/4_COMB.pep:*

3. /BMC_Celerra_SIDS3/ptodata/2/iaa/7_COMB.pep:*

4. /BMC_Celerra_SIDS3/ptodata/2/iaa/H_COMB.pep:*

5. /BMC_Celerra_SIDS3/ptodata/2/iaa/R_COMB.pep:*

5. /BMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*

6. /BMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*

7. /BMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	Sequence 1081, Ap Sequence 2, Appli Sequence 2, Appli Sequence 1268, Ap Sequence 1268, Ap Sequence 14, Appli Sequence 1, Appli Sequence 2, Appli Sequence 1, Appli Sequence 154, App Sequence 1672, App Sequence 1672, App Sequence 1672, App Sequence 1673, App Sequence 1617, App Sequence 1617, App Sequence 1617, App Sequence 1141, App Sequence 1141, App Sequence 1141, App Sequence 1170, App Sequence 2, Appli Sequen	
ΩI	US-09-518-092-1081 US-09-949-016-9768 US-09-949-016-9768 US-09-918-018-97-2 US-08-899-595-3 US-09-518-092-1268 US-09-108-897-4 US-09-108-897-4 US-09-108-897-4 US-09-141-047-8 US-09-141-047-8 US-09-141-047-8 US-09-141-047-8 US-09-141-18-15-4 US-09-141-18-15-4 US-09-912-11-15-4 US-09-912-917-2 US-09-912-917-2 US-09-912-917-2 US-09-912-917-2 US-09-912-917-2 US-09-912-917-2 US-09-912-917-2 US-09-912-917-2 US-09-912-917-2 US-09-912-917-2 US-09-912-917-2 US-09-912-917-2 US-09-912-917-2 US-09-949-016-10708 PCT-10895-016-10708	TT TT - FT - 90-50
DB		4
Length	2090 2120 2120 1248 1315 1315 1255 1255 1255 1255 1255 1255	TC7T
% Ouery March		7.0
Score	176.5 176.5 159.5 159.5 151 151 151 147 147 146.5 146.5 146.5 146.5 146.5 147 144.5 144.5 144.5 142.5 142.5 142.5 142.5 142.5	137.5
Result No.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	97

Sequence 6, Appli	4 5		Sequence /11/, Ap	Sequence 160, App	Sequence 160, App	Sequence 160, App	Sequence 160, App	Seguence 5, Appli	Sequence 106, App	Sequence 199, App	Sequence 1, Appli	Sequence 2, Appli	Sequence 19, Appl	Sequence 2, Appli	Sequence 19, Appl	Sequence 3, Appli	Semience 3. Appli		sednence 10, Appr	
US-08-328-254-6	US-09-538-092-1154	US-09-906-779-4	US-09-949-016-7117	US-08-961-083-160	US-09-536-784-160	US-09-765-271-160	US-09-765-272A-160	US-10-067-457-5	US-09-800-729-106	US-09-800-729-199	US-08-685-576-1	US-09-823-240A-2	US-09-041-886-19	US-09-648-281-2	US-09-707-919A-19	115-09-083-268-3	00001-00001	C-00-106-00-50	US-09-914-259-10	
-	7	Ŕ	7	~	~	8	7	7	'n	N	Н	7	7	7	~	0		7	7	
2482	3210	603	694	641	641	641	641	863	868	921	1388	802	1312	1312	1312	1312	1 6	1312	882	
3.2	3.5	3.5	3.2					3.1	. ~			3.1	3.1		. ~			۲.۲	3.0	
136,5	136.5	136	136	134	134	134	134	134	1 1	133	132.5	132	132	132	132	133	707	132	131.5	
27	28	29	30	9 5		1	4.6		9 6		800	0 6	, 4 , C	41		4 4		44	45	

ALIGNMENTS

1 538 encence RAL REAL VLIC VLIC VLIC VLIC VLIC VLIC VLIC VLI	; FEATURE: ; NAME/KEY: misc_feature ; INAME/KEY: misc_feature ; LOCATION: (0)(0) ; OTHER INFORMATION: Polypeptide Accession Number P35658 US-09-538-092-1081 US-09-538-092-1081 Query Match Rest Local Similarity 19.6%; Pred. No. 5.2e-05; Best Local Similarity 19.6%; Pred. No. 5.2e-05; Rest Local Similarity 19.6%; Pred. No. 5.2e-05; Pre	184 ROVPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAPILKCP 184 ROVPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAPILKCP 185	231 TOPPLILWHPYARHYYFCMMTEAEQDKWQAVLQDCIRHCNNGIPE-DS	278 KVEGPAFTDAIRMYROSKELYGTWEMLCGNEVOILSNLVWEELGPELK 325 123 RISKACFQVGTSEEMKMLRTESDDLHTFLLEIKETTESLHGDISSLKTTLEGFAGVEEA 782	326 AELGPRLKGKPQERQRQWIQISDAVY-HMYYEQAKARFEEVLSKVQQVQPAMQAV 379	380 IRTDMDQIITSKEHLASKIRAFILPKAEVCVRNHVOPYIPSILEALMVPFSGGFTEVR 437
RESULT US-09- ' Seque ' GENE ' APP ' APP ' TIT ' TIT ' TIT ' CUR	 L SD OB S	\(\delta \)	OY Pb	Oy Op	8 8	ò

us-10-612-318-2.rai

: ::	37	380 IRTDMDQII :::: 857DVNDVL	QY 438 DVFFKEVTDMALNVINEGGIDKLGEYMEKLSRLAYHPLKMQSCYEKMESLRLDGLQQRFD 497	Qy 498 VSSTSVFKQRAQIHMREQMDNAVYTFETLLHQELGKGPTKEELCKSIQRVLERVLKKYDY 557 Qy	Qy 558 DSSSVRKRFFREALLQISIPFLLKKLAPICKSELPRQELIFEDPAR 604	Qy 605 FILVENTYEEVVLQTVMKDILQAVKEAAVQRKHNLYRDSMVMHNSDP 651 : : :	652	OY 686TLSEKRRAKQVVSVVQDEEVGLPFEASPESPPASPGVTE 727 OY [:	OY 728 IR-GLLAQGLRPESPPPA-GPLLNGAPAGESPOPKAAPEASSPPASPLOHLLPGKA 781	QY 782 VDLGPPKPSDQETGEQVSSPSSHPALHTITEDSAG 816 :	RESULT 3 US-09-080-897-2 ; Sequence 2, Application US/09080897 ; Patent No. 5985574	GENERAL INFORMATION: APPLICANT: King, Mary-Claire APPLICANT: Lynch, Eric D. APPLICANT: Lynch, Eric D.	Morrow, Jan E. Welcsh, Piri L. Leon, Pedro E.	VENTION: Modulators of ACC. EQUENCES: 14 NCE ADDRESS:	ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP STREET: 75 DENISE DRIVE CITY: HILLSBOROUGH	STATE: CALIFORNIA COUNTRY: USA ZIP: 94010	ADABLE FORM: PE: Floppy disk IBM PC compatible SYSTEM: PC-DOS/MS-DOS	SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/080,897	; CLASSIFICATION:
;	PLKMQSCYBKMESLRLDGLQQRFD :		OY 558 DSSSVRKRP-FRRALLOISIPFLIKKLAPTCKSELPRFQELIFEDFAR 604	QY 605 FILVENTYEEVVLQTVMKDILQAVKEAAVQRKHNLYRDSMVMHNSDP 651	QY 652 NLHLIABCAPIDWGEEYSNSGGGGSPSPSTPESA 685 : :	Qy 686TLSEKRRRAKQVVSVVQDEBVGLPFBASPESPPPASPDGVTE 727	OY 728 IR-GLIAQGLRPESPPRA-GPLINGAPAGESPQPKAAPEASSPPASPLQHILDFCKA 781 1	Qy 782 VDLGPPKPSDQETGEQVSSPSSHPALHTTTEDSAG 816 1223 FNFGIITPTPSSNFTAAQGATFSTKESSQEDAFSSGG 1259	RESULT 2 US-09-949-016-9768	n us/vs/tsot aig et al. MORPHISMS IN H HUMAN DISE	FILE REFERENCE: CLOO1307 CURRENT APPLICATION WHOMER: US/09/949,016 CURRENT PILING DATE: 2000-04-14 PRIOR APPLICATION NUMBER: 60/241,755	; PRIOR FILING DATE: 2000-10-20 ; PRIOR APPLICATION NUMBER: 60/237,768 ; PRIOR FILING DATE: 2000-10-03 ; PRIOR APPLICATION NUMBER: 60/231,498	PRIOR FILING DATE: 2000-09-08 NUMBER OF SEQ ID NOS: 207012 SOFTWARE: FastSEQ for Windows Version 4.0	; SEQ ID NO 9768 ; LENGTH: 2120 ; TYPE: PRI	-9768	Query Match 4.1%; Score 176.5; DB 2; Lengun 2120; Best Local Similarity 19.6%; Pred. No. 5.4e-05; Matches 148; Conservative 126; Mismatches 258; Indels 225; Gaps 38;	QY 184 RQVPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAPILKCP 230	231	

OM protein - protein search, using sw model

June 24, 2006, 01:45:00; Search time 189.971 Seconds (without alignments) 3997.655 Million cell updates/sec Run on:

Title: Perfect score:

US-10-612-318-2 4313 1 MEEVGGRWWGLKPRLAGLRG........SSHPALHTTTEDSAGVQTEF 821

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

Sequence:

2849598 seqs, 925015592 residues Searched: 2849598 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 10% Maximum Match 1100% Listing first 45 summaries

Uniprot 7.2:*
1: uniprot sprot:*
2: uniprot trembl:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		Description	рошо	DIIIOU	Domon	DOILO I	mus	E .	mus		STILL	en i	mus				Oegpxe xenopus lae				tetra	nomo.	omod.		mns				_				Q9esn0 rattus norv
SUMMARIES		В ІО				_	1 NIBL MOUSE				_			2 Q3UDW4_MOUSE					_		_	-	_	_	_	Q6PE79	-	Q5F374		Q4TBL1	2 Q5RG84_BRARE		2 Q9ESNO_RAT
		Length DB	733	733	739	746	749	749	749	749	749	749	749	749	206	526	888	396	631	392	700	327	928	928	926	845	201	795	584	277	069	725	736
	₩	>2	88.1	68.7	87.9	87.9	79.6	79.6	79.4	79.4	79.4	79.3	79.3	79.2	76.8	60.09	50.6	47.0					27.0	27.0	26.9	25.2	24.3	24.2	22.2	21.2	19.7	19	19
		Score	3799	3799	3791	3791	3432.5	3432.5	3426.5	3425.5	3423.5	3420.5	3420.5	3416.5	3310.5	2589	2182.5	2027	1943	1761.5	1617.5	1425	1166	1164	1161	1085 5	1048	1044	955	916.5	848	827.5	818.5
		Result No.		8	m	4	· ro	9	7	· 60	6	10	11	12	13	14	15	16	17	18	61	20	21	22	23	2.0	1,0 1,0	26	27	80	67.0	30	31

O48226 tetraodon n	OSCAL TIONO SAPTEM	ORDRA4 DOMO Saptem	O86xr2 homo sapien	Q86xr3 homo sapien	Osted3 homo sapien	Ozn148 rattus norv	07z6h6 homo sapien	Ostd68 mus musculu		Oscallo muscara	055g75 dictyostell			10727	Q3kgz0 nomo sapien	
	•					•										
	-					,		,								
Q4SZ26_TETNG	OBEXR4 HUMAN	QBN894 HUMAN	OBGXR2 HUMAN	OB6XR3 HUMAN	OSTEO3 HUMAN	OZNL48 RAT	O7ZGHG HIMAN	TOLICE MOLICE	1500m 001150	O3TOH6 MOUSE	055G75 DICDI	OSTRY9 HIMAN		040387_LE1MA	O3KOZO HUMAN	
8	Ŕ	~	~	7	~	0	ې ا	1 0	Ņ	Ņ		c	1	0	C	•
592	999	620	697	651	579	6	י מ	1	210	400	528	0	•	665	2080	1
17.5	12,3	12.1	12.0	12.0	10.9	0	9 0	0,0	9.	7.2	6.5			4.2	٢ ٧	:
755	530.5	522.5	91.5		468	2000	0.00	421.0	415.5	312.5	256	0 0	777	183	1 20	7.07
32	33	3.4		2.4		0 0	0 0	3	40	41	1.4	1 1	43	44	L	0

ALIGNMENTS

```
KARFEEVLSKVQQVQPAMQAVIRTDMDQIITSKEHLASKIRAFILFRAEVCVRNHVQPXI 418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              59 MGWMGGQRSTSLWPWTPGVFSEFLEDGGMGLWFQQEKTGKILTEFLQFYEDQYGVALFNS 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           119 MRHEIBGTGLPQAQLLWRKVPLDERIVFSGNLFQHQEDSKKWRNRFSLVPHNYGLVLYEN 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KAAYERQVPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAPILKCPTQFPLILM 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HPYARHYYFCMMTEAEQDKWQAVLQDCIRHCNNGIPEDSKVEGPAFTDAIRMYRQSKELY 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTWEMLCGNEVQILSNLVMEELGPELKAELGPRLKGKPQERQRQWIQISDAVYHMVYEQA 358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Buarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 571 GAPIDWGEEYSNSGGGGSPSPSTPESATLSEKRRRAKQVVSVVQDEEVGLPFEASPESPP
                                       PASPDGVTEIRGLLAGGIRPESPPPAGPLLAGAPAGBSPQPKAAPEASSPPASPLQHLLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 733;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                  GKAVDLGPPKPSDQBTGBQVSSPSSHPALHTTTEDSAGVQTEF 821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (MAY-2005) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Laird G.;
Submitted (MAY-2005) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR001849; PH.
InterPro; IPR011993; PH type.
PROSITE; PSS00003; PH DOMAIN; 1.
SEQUENCE 733 AA, 82683 MW; 38E1C24CF737F3DB CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL; AL445222; CAH72915.1; -; Genomic_DNA.
EMBL; AL390116; CAH72915.1; JOINED; Genomic_DNA.
EMBL; AL390116; CAH73085.1; -; Genomic_DNA.
EMBL; AL445222; CAH73085.1; JOINED; Genomic_DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   88.1%; Score 3799; DB 2;
96.1%; Pred. No. 7.5e-190;
iive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                          Name_RP11-356B19.6; ORFNames=RP11-356B19.6-003;
                                                                                                                                                                                                                                                                                               10-MAY-2005, integrated into UniProtKB/TrEMBL
                                                                                                                                                                                                                                                           733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ensembl; ENSG0000136830; Homo sapiens
                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                                                                      10-MAY-2005, sequence version 1.
07-FEB-2006, entry version 6.
OTTHUMP00000022187.
                                                                                                                                                                                                                                                             QSVVW6_HUMAN PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches 733; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             [1]
NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ٦
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                               719
                                                                                                                        119
                                                                                                                                                                691
                                                                                                                                                                                                                                                                                  QSVVW6;
                                                                                                                                                                                                                        RESULT :

ON THE STATE OF STAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \delta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                              셤
                                                                                     q
                                             ò
                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTWEMLCGNEVQILSNLVMEELGPELKAELGPRIKGKPQERQRQWIQISDAVYHMVYEQA 358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        119 MRHEIEGTGLPQAQLLWRKVPLDERIVFSGNLFQHQEDSKKWRNRFSLVPHNYGLVLYEN 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KAAYERQVPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAPILKCPTQFPLILW 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                90
                                                                                         Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HPYARHYYFCMMTEAEQDKWQAVLQDCIRHCNNGIPEDSKVEGPAFTDAIRMYRQSKELY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PSITEALWVPTSQGFTEVRDVFFKEVTDWNLNVINEGGIDKLGEVMEKLSRLAYHPLKMQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SCYEKMESLRLDGLQQRFDVSSTSVFKQRAQIHMREQMDNAVYTFETLLHQELGKGPTKE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BLCKSIQRVLERVLKKYDYDSSSVRKRFFREALLQISIPFLLKKLAPTCKSELPRFQELI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PEDFARFILVENTYEEVVLQTVMKDILQAVKEAAVQRKHNLYRDSMVMHNSDPNLHLLAE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KARFEEVLSKVQQVQPAMQAVIRTDMDQIITSKEHLASKIRAFILPKAEVCVRNHVQPYI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MGWMGGQRSTSLWPWTPGVFSEFLEDGGMGLWFQQEKTGKILTEFLQFYEDQYGVALFNS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 733;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             38E1C24CF737F3DB CRC64;
          Proc. Natl. Acad. Sci. U.S.A. 101:12130-12135(2004)
-!- SIMILARITY: Belongs to the Niban family.
-!- SIMILARITY: Contains 1 PH domain.
                                                                                                                                                                                                                                                                                                                                                   Niban-like protein.
/FTId=PRO_0000213121
                                                                                                                                                                                                                                                                                                                                                                                                                                  Phosphoserine.
Phosphoserine.
H -> L (in Ref. 1).
P -> L (in Ref. 3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  88.1%; Score 3799; DB 1; 96.1%; Pred. No. 7.5e-190;
                                                                                                                                                                                                                                                                                                                                                                                                               Phosphoserine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
                                                                                                                                                                                                           PIR; T46394; T46394.
Ensembl; ENGG00000136830; Homo sapiens.
HGNC; HGNC: 52282; C90xf88.
InterPro; IPR011849; PH.
InterPro; IPR011993; PH type.
PROSITE; PSS0003; PH DOMAIN; 1.
                                                                                                                                                 EMBL; AF151783; AAK57556.1; -; mRNA.
EMBL; AL137555; CAB70809.1; -; mRNA.
EMBL; BC001979; AAH01979.2; -; mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 82683 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 96.1'
Matches 733; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                   683
305
664
                                                                                                                                                                                                                                                                                                                                                     733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         305 3
664 6
733 AA;
                                                                                                                                                                                                                                                                                                                            Phosphorylation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CONFLICT
CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              539
                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN
MOD_RES
MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOD_RES
                  g
```

ઠ g ò g ò g ò 셤 δ g Š qq 8 d Š g ò 셤 ò

OM protein - protein search, using sw model

June 24, 2006, 01:50:05; Search time 31.0676 Seconds (without alignments) 2542.646 Million cell updates/sec Run on:

US-10-612-318-2 4313 1 MEEVGGRWWGLKPRLAGLRG......SSHPALHTTTEDSAGVQTEF 821 Title: Perfect score:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

Sequence:

283416 seqs, 96216763 residues Searched:

Total number of hits satisfying chosen parameters:

283416

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Ligsagg first 45 summaries

pir3:* pir4:* PIR Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

											_		_							,					_						_
			•	-	•	4	a	•		.	aı.	4)	-	a		as a	a)	ο.	v	a .	.	_	0		0.	O.	a)	<u>د</u>	Q.	E	ın.
		Description	hypothetical prote	probable transform	neurofilament trip	hypothetical prote	probable involveme	neurofilament trip	dynamin, internal	diaphanous protein	cell-cycle-depende	hypothetical prote			PML protein, splic	hypothetical prote	hypothetical prote	neurofilament trip	protein-tyrosine	hypothetical prote	neurofilament medi	neuronal cell cycl	PML protein, splic	dynamin, internal	neurofilament trip	neurofilament trip	hypothetical prote	calcium channel pr	En/Spm-like transp	glycoprotein A -	serine/threonine-s
SUMMERTES		QI	T46394	S26058	S15762	T16038	T41643	QFMSH	A40671	T31065	PC4035	T14756	138346	T31555	S44382	T34081	T43168	A37221	TVRTNU	T48502	I50479	A56677	842518	B40671	A27864	ОЕНОН	T22341	829236	H84684	JE0120	S74245
		98	2	7	~	~	~	7	~	~	~	7	7	7	~	~	7	٦	7	7	7	7	7	~	7		7	~	~	~	7
		Length DB	969	2090	828	1259	1461	1087	864	1255	1017	990	7962	1400	802	1130	1018	1072	1260	871	798	1251	802	851	916	1020	581	2259	268	1282	1388
	gierv		84.0	Ì	3.8	3.7	3.6	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4			3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2
		Score	3624	176.5	162	161.5	156	152.5	151	151	148	147	147	146.5	145.5	145.5	145	145	145	144.5	144	143.5	142.5	142.5	142.5	142.5	141	139	138.5	138.5	138.5
	Decult	No.		2	٣	4	2	9	7	80	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	. 29

546 RVLERVLKKYDYDSSSVRKRFFRBALLQISIPFLLKKLAPTCKSELFRFQELIFEDFARF 605

δ В

	hypothetical prote	brevican precursor	eukocyte formin p	Bassoon protein -	D100 protein - rat	ypothetical prote	ypothetical prote	probable transcrip	ypothetical prote	neurofilament trip	diaphanous protein	erine/threonine-s	hypothetical prote	hypothetical prote	Bassoon protein -	A kinase anchor pr	
	Æ.	ш;	-	ш	_	~	- -	14			0	u 2	_	~	ш	_	•
										. •							
								٠.									
	T19800	A54423	JC8033	T42730	S11508	T16703	T33470	T51947	T00363	800030	T13170	870633	T16270	T00039	T42761	T09225	
:	7	7	~	~	N	~	7	7	7	7	7	~	7	7	~	7	
	418	912	1100	3942	851	1974	1013	1392	1234	849	1091	1388	1827	906	3938	885	
	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1		, e-	3.0	
	137.5	137.5	137.5	136	134.5	134.5	134	134	133.5	133	133	132.5	132.5	132	132	131.5	
	30		3	, ,	4	, tu	36	3.7	9	9 6	4	41	42	4 1	44	45	

.

6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	421 RVLERVLKKYDVDSSSVRKRFFREALLQISIPFLLKKLAPTCKSELPRFQELIFEDFARF 480 606 ILVENTYEEVVLQTVMKDILQAVKEAAVQRKHNLYRDSMVMHNSDPNLHLLAEGAPIDMG 665	
RESULT 2 S26058 Cypobable Cybocabe Cybate: CyAccess Ryvon Li Mol. Cell A;Title: K-can mR A;Refere A;Access A;Status	transforming protein (can) - human s: Homo sapiens (man) id=1-40n-1995 #text_change 09-Jul-2 id=1-40n-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2 id=1-40n-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2 id=1-40n-1995 #sequence_revision 13-Jan-1995 I. Biol. 12, 1687-1697, 1992 I. Biol. 12, 1687-1697 II. Biol. 12, 1687-1697 II. Biol. 12, 1687-1697 II. Biol. 12, 1687-1697 II. Biol. 12, 1687-1697 III. Biol. 13-Jan-1995 III. Biol. 13-J	RESULT 3 \$15762 neurofilament triplet M protein - chicken c.Species: Gallus gallus (chicken) C.Species: Gallus gallus (chicken) C.Decies: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 09-Jul-2004 C.Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 09-Jul-2004 R.Zopf, D.; Dineva, B. 521-529, 1990 A.Title: Isolation of the chicken middle-molecular weight neurofilament (NF-M) gene and A; Reference number: S15762 A.Accession: S15762 A.A
A;Cross- Query Best I Matche	Cross references: UNIPROT: P35658; UNIPARC: UP1000012FCIE; EMBL: X64228; NID: 929652; PIDN Query Match Query Match Best Local Similarity 19.6%; Pred. No. 0.11; Matches 148; Conservative 126; Mismatches 258; Indels 225; Gaps 38; Matches 148; Conservative 126; Mismatches 258; Indels 225; Gaps 38;	A) Loopf, D.; Dineva, B.; Berz, H.; Gundelfinger, E. Submitted to the EMBL Data Library, November 1989 A; Reference number: S08061 A; Accession: S08061 A; Accession: S08061 A; Molecule type: DNA A; Residues: 1-355, 368-858 < Z02>
3 8 8 8	SHP YFC Q-P	A;Cross-references: Unfractional Data A; Cross-references: Unfractional Data, H. R;Zoff, D.; Hermans-Borgmeyer, I.; Gundelfinger, B.D.; Betz, H. Genes Dev. I, 699-7108, 1987 A;Title: Identification of gene products expressed in the developing chick visual syste A;Reference number: A27040; MUID:88112814; PMID:3123320 A;Reference number: A27040
1 & 8 &	278 KVEGPAFTDAIRMYRQSKELYGTWEMLCGNEVQILSNLVMEELGPELK 325 723 RTSKACFQVGTSEEMKALRTESDDLHTFLLEIKETTESLHCDISSLKTTLLEGFAGVEA 782 326 AELGPRLKGKPQERQRQMIQISDAVY-HMVYEQAKARFEEVLSKVQQVQPAMQAV 379	A) Residues: 350-546. MAN. R., 548-858 <203> A) Residues: 350-546. R., 548-858 <203> A) Cross-references: UNIPARC:UP1000017137B; GB:X05558; NID:g636B5; PIDN:CAA29073.1; PID: C;Genetics: A;Introns: 355/3; 397/2 A;Introns: 355/3; 397/2 C;Superfamily: cytoskeletal keratin C;Keywords: coiled coil
00 O		Query Match 3.8%; Score 162; DB 2; Length 858; Best Local Similarity 21.1%; Pred. No. 0.19; Matches 136; Conservative 92; Mismatches 260; Indels 156; Gaps 29; Qy 293 QSKELYGTWEMLCCNEVQILSNL
à da à d	438 DVFFKEVTDMNLAVINEGGIDKLGEYMEKLSRLAYHPLKMQSCYEKMESLRLDGLQQRFD 497	79 QSSLINGABELKLSRSNEKEÖLGGLNDRFAGYIEKVHYLEOONKI 339 RORQWIQISDAVYHWYEOAKARFEBVLSKVQVQ 138 RAQLGDA-YEQELRELRGALEQVSHEKAQIQLDSEHIEEDI
9 6 9 6	CKSELP : VRSTAPAS.	

OM protein - protein search, using sw model

June 24, 2006, 01:44:35 ; Search time 145.152 Seconds (without alignments) , 2586.080 Million cell updates/sec Run on:

US-10-612-318-2 4313 1 MEEVGGRWWGLKPRLAGLRG......SSHPALHTTTEDSAGVQTEF 821

Perfect score: Sequence: Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

2589679 Total number of hits satisfying chosen parameters: 2589679 seqs, 457216429 residues Searched:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listips first 45 summaries

Database

geneseqp2003as:* geneseqp2003bs:* A Genesed 8:* .: genesedp1980s:* : genesedp1990s:* geneseqp2001s:* geneseqp2002s:* geneseqp2004s:* geneseqp2000s:* geneseqp2005s:* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqp2006s:*

10:

SUMMARIES

		٠.	~:		L	rn.	D)	_	ο.		0	o.	Q.	ω	ιo.	0	a)	E	0	ß	0	z	ы	z
	ion		Human ST	Protein a			Human	Human		Amino aci	Human pro	PRO polyp		Cancer-as	Cancer-as	Aeg07465 Human aco	Human the		Human pro	Cancer-as	Human pro	Human cD	Human	Human BCN
	Description	Ad123466	Ad123468	Ado55194	Aam51209	Abm81075	Aab11456	Abp62933	Aab95443	Aab67451	Aab94034	Ady17313	Ady17311	Aee04903	Aee04901	Aeg0746	Ads10972	Aam84036	Adb82699	Aee04898	Adm04521	Aec87451	Aab42724	Abr83120
	1																			,				
			т.		•	10	10	3	æ		₹*	3		<u>«</u>	-	65	2	9	6	8	1	1	4	0
)) ,	QI	ADL23466	ADL23468	AD055194	AAM51209	ABM81075	AAB11456	ABP62933	AAB95443	AAB67451	AAB94034	ADY17313	ADY1731	AEE04903	AEE04901	AEG07465	ADS10972	AAM84036	ADB82699	AEE04898	ADM0452	AEC8745	AAB42724	ABR83120
	DB	, œ	8	80	4	ω	3	Ŋ	4	4	4	σ	σ	σ	σ	10	œ	4	7	σ	7	σ	ო	7
	Length DB	821	791	733	746	746	733	703	396	928	928	928	928	928	928	928	928	246	726	725	383	383	298	703
æ	>	100.0)6 2	88.1	87.9	87.9	87.8	84.9	47.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	26.9	22.9	19.4	19.2	15.3	.5.3	13.8	12.6
	Score	4313	4114	3799	3791	3791	3788	3662	2027	1164	1164	1164	1164	1164	1164	1164	1160	989.5	838	827.5	658.5	658.5	595	542.5
	Result No.			۳ ا	9 4	· LC	6	7	c c	6	01	11	12	1	1 4		19	17	α.	6-	í c	22	22	23

Adm05460 Human pro		Abres 122 Human BCN	Human	Human	-, ,	Aam90354 Human ımm	Aay21849 Human Sig		0	4			_	Ado55126 Protein #	Adn23114 Bacteria			Aay13464 Human dia	Adr66113 Human pro	Adr66455 Human pro	Adv18523 PRO polyp		-	
					:																			
							•																	
_	_			_	_			_		34	~	_	-*			<u>~</u>	**	51	~	10	_	^		
ADM05460	AEC88390	ABR83122	ABR83121	163	312	0324	184	1778	ADX07779	AEF5853	ADF09542	AAB97070	ADV13344	AD055126	ADN23114	ADE14368	ADH61284	AAY13464	ADR6611	ADR6645	CC30 LVA	7007		
ADM0	AEC8	ABR8	ABR8	ADD67630	ABR	AAM90354	AAY2	ADXO	ADXO	AEF	ADFC	AABS	ADV1	ADOE	ADNZ	ADE1	ADHe	AAY	ADR	ADR	2	2		
7	6	,	7	۲.		4	•	σ	0	10	7	4	ტ	00	00	7	œ	~	00	œ		ע		
620	620	697	651	579	579	247	177	2130	2090	2090	2127	2058	31	873	1259	1082	1088	1248	1112	1112	1 -	7117		
12.1	12.1	12.0	12.0	10.9	10.9	7.6	5.7	4.1	4.1	4.1	4.1	4.1	60	6		3.7	3.7	7		7		۲.		
'n	'n	L)	'n	468	468	329	244	177	5	T.	, LC			. נר) !	j		
522.	522.	519	518	4	4	m	Ö	H	176	176.5	176.5	175.5	166	162	161.5	100	159.5	170	ן מ	158	1 1	158		
24	25	26	27	28	50	30	31.	32		34		5 6	3.7	. a	0 0	2 4	. 4	4.2	7 7	7	P 1	45		

ALIGNMENTS

ADL23466 standard; protein; 821 AA 01-JUL-2004 (first entry) ADL23466; ADL23466

RESULT 1

Human STR50 long variant polypeptide.

Human, STR50; long variant; neurotoxic stress; neurodegenerative disease; stroke; Parkinson's disease; Alzheimer's disease; Huntington's disease; tumour; cancer; cerebroprotective; vasotropic; antiparkinsonian; neuroprotective; nootropic; anticonvulsant.

Homo sapiens.

US2004068098-A1.

08-APR-2004.

01-JUL-2003; 2003US-00612318.

01-JUL-2002; 2002US-0393251P.

(KACH/) KACHALSKY S G. (FAER/) FAERMAN A. (PELO/) PEL-OR Y.

Pel-Or Y; Faerman A, Kachalsky SG,

WPI; 2004-304622/28. N-PSDB; ADL23465.

New STRSO polynucleotides and polypeptides, useful in diagnosing and treating neurodegenerative diseases, e.g. stroke, Parkinson's disease, Alzheimer's disease or Huntington's disease and tumors

Claim 14; SEQ ID NO 2; 38pp; English.

The invention relates to a purified polymucleotide encoding the human STRSO polypeptide. The purified polypeptide has the biological activity to modulate neurotoxic stress. The polymucleotide and the polypeptide and compositions of the invention are useful in diagnosing and treating neurodegenerative diseases, e.g. stroke, parkinson's disease, Alzheimer's disease, Huntington's disease and tumours. This sequence represents the

SXS

```
New STR50 polynucleotides and polypeptides, useful in diagnosing and treating neurodegenerative diseases, e.g. stroke, Parkinson's disease, Alzheimer's disease or Huntington's disease and tumors.
                               Human; STR50; short variant; neurotoxic stress;
neurodegenerative disease; stroke; Parkinson's disease;
Alzheimer's disease; Huntington's disease; tumour; cancer;
cerebroprotective; vasotropic; antiparkinsonian; neuroprotective;
Human STR50 short variant polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 15; SEQ ID NO 4; 38pp; English.
                                                                                                                                                                                                                                                                                               01-JUL-2002; 2002US-0393251P.
                                                                                                                                                                                                                                                            01-JUL-2003; 2003US-00612318.
                                                                                                              nootropic; anticonvulsant
                                                                                                                                                                                                                                                                                                                                                                                                                Faerman
                                                                                                                                                                                                                                                                                                                                     (KACH/) KACHALSKY S
                                                                                                                                                                                                                                                                                                                                                                                                                                                 2004-304622/28.
                                                                                                                                                                                                                                                                                                                                                         FAERMAN A.
PEL-OR Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2004-304622
N-PSDB; ADL23467
                                                                                                                                                                                       US2004068098-A1
                                                                                                                                                                                                                                                                                                                                                                                                              Kachalsky SG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WMG
                                                                                                                                                                                                                        08-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                         (FAER/)
(PELO/)
                                                                                                                                                     Ношо
     SO CCC CCC X X X X X X B X X B X X B X X B X X B X X B X X B X X B X X B X B X X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                780
                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    720
                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                                                                                                                       300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ILEALMVPTSQGFTEVRDVFFKEVTDMNLAVINEGGIDKLGEYMEKLSRLAYHPLKMQSC 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                                                             180
                                                                                                                                                                                                                              120
                                                                                                                                                                                                                                                                  120
                                                                                                                                                       9
                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                YEKMESLRLDGLQQRFDVSSTSVFKQRAQIHMREQMDNAVYTFETLLHQELGKGPTKEEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CKSIQRVLERVLKKYDYDSSSVRKRFFREALLQISIPFLLKKLAPTCKSELPRFQELIFE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DFARFILVENTY EEVVLQTVMKDILQAVKEAA VQRKHINLYRDSMVMHINSDPNLHLLAEGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SPDGVTEIRCLLAQGLRPESPPPAGPLLNGAPAGESPQPKAAPEASSPPASPLQHLLPGK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AYERQVPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAPILKCPTQFPLILWHP
                                                                                                                                                                                                                                                                                                                                                                                                      YARHYYFCMMTEAEQDKWQAVLQDCIRHCNNGIPEDSKVEGPAFTDAIRMYRQSKELYGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WEMLCGNEVQILSNLVMBELGPELKAELGPRLKGKPQERQRQWIQISDAVYHMVYEQAKA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RFEEVLSKVQQVQPAMQAVIRTDMDQIITSKEHLASKIRAFILPKAEVCVRNHVQPYIPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MEBVGGRWWGLKPRLAGLRGTGSDCPALAQQQTALKDVLGVRNWASSGPFLLGLSLWRWG
                                                                                                                                                                             WMGGQRSTSLWPWTPGVFSEFLEDGGMGLWFQQEKTGKILTEFLQFYEDQYGVALFNSMR
                                                                                                                                                                                                                                                                                                         HEI EGTGLPQAQLLWRKVPLDERIVFSGNLFQHQEDSKKWRNRFSLVPHNYGLVLYENKA
                                                                                                                    Gaps
                                                                                                                      ö
                                                                                  821;
                                                                                  Length
                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AVDLGPPKPSDQETGEQVSSPSSHPALHTTTEDSAGVQTEF 821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           821
             of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                    ..
8
                                                                                    ВВ
                                                                                                                        Mismatches
                                                                                    Score 4313;
Pred. No. 0;
             variant polypeptide
                                                                                                                          ö
                                                                                Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 821; Conservative 0
                 STR50 long
                                                     Sequence 821 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                          181
                   human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT
```

g ઠે g ò ద ò g ਨੇ g 8 g ò 임 ð

g ò

엄 ò

ò

셤

g ò

Š

g

8

× Pel-Or

Ä

e,

```
The invention relates to a purified polymucleotide encoding the human STRSO polypeptide. The purified polymeptide has the biological activity to modulate neurotoxic stress. The polymucleotide and the polymeptide and compositions of the invention are useful in diagnosing and treating neurodegenerative diseases, e.g. stroke, Parkinson's disease, Alzheimer's disease, Huntington's disease and tumours. This sequence represents the human STRSO short variant polypeptide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                             61 WMGGQRSTSLWPWTPGVFSEFLEDGGMGLWFQQEKTGKILTEFLQFYBDQYGVALFNSMR 120
                                                                                                                                                                                                                                                                                                                                                              180
                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                             90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RFEBVLSKVQQVQPAMQAVIRTDMDQIITSKEHLASKIRAFILPRABVCVRNHVQPYIPS
                                                                                                                                                                                                                                                                                                                                                            HEIEGTGLPQAQLLWRKVPLDERIVFSGNLFQHQEDSKKWRNRFSLVPHNYGLVLYENKA
                                                                                                                                                                                                                                                                                                                                                                                                                            AYERQVPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAPILKCPTQFPLILWHP
                                                                                                                                                                                                                                                                                                                                                                                                                                               YARHYYPCMMTEAEQDKWQAVLQDCIRHCNNGIPEDSKVEGPAFTDAIRMYRQSKELYGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WEMLCGNEVOILSNLVMEELGPELKAELGPRLKGKPQERQRQWIQISDAVYHMVYEQAKA
                                                                                                                                                                                                                                                                                                                 1 MEEVGGRWWGLKPRLAGLRGTGSDCPALAQQQTALKDVLGVRNWASSGPFLLGLSLWRMG
                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                30;
                                                                                                                                                                 Length 791;
                                                                                                                                                                                                  Indels
                                                                                                                                                                    .,
8
                                                                                                                                                                                                   ;
                                                                                                                                                                 Score 4114; DB 8;
Pred. No. 2e-310;
                                                                                                                                                                                                   0; Mismatches
                                                                                                                                                                      95.4%;
96.3%;
                                                                                                                                                                                       Best Local Similarity 96.3
Matches 791; Conservative
                                                                                                                                           Sequence 791 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
```

791

ADL23468 standard; protein;

ADL23468

8

ò

(first entry)

01-JUL-2004

ADL23468;

XXXXXX

```
June 24, 2006, 20:00:20; Search time 1403 Seconds
(without alignments)
6045.429 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Issue Payents_NA:*

1. / FMG_Celerra_SIDS3/ptodata/2/ina/1_COMB.seq:*

2. / FMC_Celerra_SIDS3/ptodata/2/ina/6_COMB.seq:*

3. / FMC_Celerra_SIDS3/ptodata/2/ina/6_COMB.seq:*

4. / FMC_Celerra_SIDS3/ptodata/2/ina/6_COMB.seq:*

5. / FMC_Celerra_SIDS3/ptodata/2/ina/H_COMB.seq:*

6. / FMC_Celerra_SIDS3/ptodata/2/ina/H_COMB.seq:*

7. / FMC_Celerra_SIDS3/ptodata/2/ina/PCOMB.seq:*

8. / FMC_Celerra_SIDS3/ptodata/2/ina/PCOMB.seq:*

9. / FMC_Celerra_SIDS3/ptodata/2/ina/PCOMB.seq:*

10. / FMC_Celerra_SIDS3/ptodata/2/ina/PCOMB.seq:*

9. / FMC_Celerra_SIDS3/ptodata/2/ina/PCOMB.seq:*

10. / FMC_Celerra_SIDS3/ptodata/2/ina/PacKfiles1.seq:*
                                                                                                                                                                                                                                                                 GenCore version 5:1.9
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               1403666 segs, 935554401 residues
                                                                                                             OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                          IDENTITY NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0% Maximum Match 100%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Listing
                                                                                                                                                                                                                                                                                                                                                                                                Scoring table:
                                                                                                                                                                                                                                                                                     Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Searched:
                                                                                                                                                                                                                                                                                                                                              Sequence:
                                                                                                                                                                                Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	1	Appl	App1	App	App	App	App	App	App	App	App	App	App	App	Ann	4 1	App	App	App	App	App		-	¥ ,	App	ч, н Н
	g :		20,		203,	203,	203,	203,	203,	203,	203,	203,	202,	202	200	1 0	707	707	202	202,	202	200	1001	107	762,	33591,
	ptio	nce	nce	nce	nce	ance	ance	ance	suce	suce	ance	ance	ance	900		יייי	ence	ance	ence	ence	Semience	000	antantas	Sequence	Sequence	Sequence
	Description	Sequence	Seguence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Segmence	Semience	5 6	Sequence	Sequence	Sequence	Sequence	Sequence	Seg	1	nhac ocde	sedn	Sedn	Sequ
	Ď	0,	υ,	0,	٠.		••																			
	1																							54		91
		0	0	203	203	-203	203	203	203	203	203	203	202	1 0	707	-202	202	202	202	202	000	4 0	202	-107	762	-335
		258-2	-098	705-3	457-	124B	325-	184-	824-	754-	563-	642-	705	0 1	1,04	124B	325-	184-	824-	754-			-642-	9990	-101-	2666-
		205-	004-	702-	736-	614-	671-	-589-	-658-	-017-	-651-	-519-	100	100.	-736-	-614-	-671-	-589-	-658-	-017-	3 6	100	-519.	-513	-880	-513
	0	JS-09-205-258-20	JS-10-004-860-20	18-09-702-705-203	15-09-736-457-203	US 09 / 12 124B-203	IIS-09-671-325-203	IS-09-589-184-203	US-09-658-824-203	US-10-017-754-203	US-09-651-563-2	HS-09-519-642-203	32 55 555 555 555 555 555 555 555 555 55		US-09-/36-45/-202	US-09-614-124B-202	JS-09-671-325-202	US-09-589-184-202	US-09-658-824-202	TIG-10-017-754-202	9 6	18-08-60-TC9-60-SD	US-09-519-642-202	JS-09-513-999C-10754	JS-09-880-107-762	US-09-513-999C-33591
	di Di	Ď	Ď	Ě	5 🖹	5 🖹	5 E	; =	Þ	· =	· =	. ~	•	⊃ ;	~	۳ ص	D	D	Ð) ;	ว ร	р Э	3	4 U	3 C
	DB 1				, ,	, ,		. ~	. ~				٠.	· ·	m	m	m	m	٠.			~	m	7	0	7
	Query Match Length	1446	1446	713	, ,	7.5	713	1.	713	713	713	-	1 6	87	283	28.	28.	283	283	000	07	283	283	217	169	337
	24	-		ļ		4 ×			. ~		. ~		; •	'n	'n.	m.	m	m			•	m.	m	9	4	6
æ	Match	200	e e	:	7 -	4 -	4 -	* <	7 7	7 7	77		-	S	'n	Ľ	u	u	ı	, ,	11	u ,	u,	7		
	Score	, 4			0 0	9 0	9 0	0.0	0.0	0.0	0.00	0 0	0.040	238.4	238.4	238.4	238.4	4 850	4 9 5 6		238.4	238.4	238.4	207	155.4	85.8
	Scc	1342 6	1242	104	0 4 0	648	0.40	70	7 4	5	9 4	0 0	Ď	23	23	23	2	5	, ,	3 6	53	23	23	1	7	9 00
	ult No.	-	4 (N (η.	4° I	'n	0 (- c	0 0	,	2;	77	12	13	14		3 4	1 -	1	18	13	20	3 6	1 6	23
	Result No.	:												U	υ	t	י כ) (י כ	ပ	υ	υ	C)		

24 66.4 1.5 1588 3 US-09-490-291-7 Sequence 25 63.2 1.4 1995 2 US-08-425-069-3 Sequence 26 63.2 1.4 1995 2 US-08-425-069-3 Sequence 27 62.6 1.4 2338 2 US-08-137-9448-1 Sequence 28 61.2 1.4 1338 2 US-08-137-948-1 Sequence 29 61.2 1.4 1338 2 US-08-137-948-1 Sequence 29 61.2 1.4 1852 3 US-09-95-95-4 Sequence 21 0.5 1.3 1914 4 US-10-094-749-1451 Sequence 27 1.3 1914 4 US-10-094-749-1451 Sequence 28 57.4 1.3 1914 4 US-10-094-749-1451 Sequence 29 57.4 1.3 1914 4 US-10-094-749-1451 Sequence 29 57.4 1.3 1914 4 US-10-094-749-1451 Sequence 20 56.4 1.2 2305 3 US-09-902-540-790 Sequence 20 56.4 1.2 2305 3 US-09-902-540-790 Sequence 20 56.4 1.2 2305 3 US-09-902-540-790 Sequence 20 56.4 1.2 2305 3 US-09-91-515-80 Sequence 20 56.2 1.2 2305 3 US-09-475-515-80 Sequence 20 56.2 1.2 2305 3 US-09-475-515-80 Sequence 20 56.2 1.2 2305 3 US-09-81-2 Sequence 20 56.2 1.2 2580 3 US-09-81-2 Sequence 20 56.2 1.2 2580 3 US-09-130-114-1 Sequence 20 56.2 1.2 2580 3 US-09-130-114-1 Sequence 20 56.2 1.2 580 3 US-09-130-114-1 Sequence 20 56.3 1.2 580 3 US-09-130-1 Sequence 20 56.3 1.2 5	7, App	3, App	m	ä			4	4	797, 7	1541	1 -	4 (י ת	796'	14. At		i.	ò	•		, i	s, App	2, Apl	2. Apr	1	I, Api	5, Ap	:	
24 66.4 1.5 1588 3 US-09-490-291-7 25 63.2 1.4 1995 2 US-08-425-069-3 26 63.2 1.4 1995 2 US-08-425-069-3 27 62.6 1.4 2338 2 US-08-425-069-1 28 62.6 1.4 2338 2 US-08-425-069-1 31 60.4 1.3 7218 2 US-09-96-85-4 32 57.4 1.3 7218 2 US-09-56-85-4 33 57.4 1.3 1907 4 US-10-094-79-1541 34 57.4 1.3 1904 4 US-10-094-79-1541 35 57.4 1.3 1914 4 US-10-094-79-1541 37 57.4 1.3 2541 3 US-09-902-540-796 36 57.4 1.3 2541 3 US-09-902-540-796 37 56.4 1.2 2541 3 US-09-475-515-80 38 56.4 1.2 2306 3 US-09-475-515-82 41 56.2 1.2 2306 3 US-09-475-515-82 42 56.2 1.2 2580 3 US-09-050-863-2 43 56.2 1.2 2580 3 US-09-050-861-2 44 56.2 1.2 2580 3 US-09-10-130-114-1 45 56.2 1.2 2580 3 US-09-130-114-1	Sequence	Sednence	Sequence	Seguence		Seductice	Sequence	Sequence	Seguence	0000000	Schreiber	sednence	Sednence	Sequence	Seminar Page	2000	sednence	Sequence	Seguence	0000	seducince	sednence	Sequence	Semience	0	sednence	Sequence	; ; ; ;	
24 66.4 1.5 1588 3 US-09-490-291 25 63.2 1.4 1995 2 US-08-425-069 26 62.6 1.4 2338 2 US-08-317-844 27 62.6 1.4 2338 2 US-08-317-844 29 61.2 1.4 1852 3 US-09-317-844 31 58 1.3 7994 3 US-09-902-549 32 57.4 1.3 1914 4 US-10-094-749 34 57.4 1.3 2541 3 US-09-902-549 35 57.4 1.3 2541 3 US-09-902-549 36 57.4 1.3 2541 3 US-09-902-549 37 57.4 1.3 2541 3 US-09-902-549 38 56.4 1.2 2305 3 US-09-902-549 39 56.4 1.2 2305 3 US-09-75-515 40 56.2 1.2 1926 3 US-09-475-515 41 56.2 1.2 2306 3 US-09-36-568 42 56.2 1.2 2580 3 US-09-39-08 44 56.2 1.2 2580 3 US-09-39-08																													
24 66.4 1.5 1588 3 US-09-490-291 25 63.2 1.4 1995 2 US-08-425-069 26 62.6 1.4 2338 2 US-08-317-844 27 62.6 1.4 2338 2 US-08-317-844 29 61.2 1.4 1852 3 US-09-317-844 31 58 1.3 7994 3 US-09-902-549 32 57.4 1.3 1914 4 US-10-094-749 34 57.4 1.3 2541 3 US-09-902-549 35 57.4 1.3 2541 3 US-09-902-549 36 57.4 1.3 2541 3 US-09-902-549 37 57.4 1.3 2541 3 US-09-902-549 38 56.4 1.2 2305 3 US-09-902-549 39 56.4 1.2 2305 3 US-09-75-515 40 56.2 1.2 1926 3 US-09-475-515 41 56.2 1.2 2306 3 US-09-36-568 42 56.2 1.2 2580 3 US-09-39-08 44 56.2 1.2 2580 3 US-09-39-08		e.	3-3			3-1	4-	-14	797		1541	-1451	-7900	σ		٠.	-12	-80	-82	3 1	A-2	<u>ب</u>	-2		7	۲-	ď	ב	
24 66.4 1.5 1588 3 US- 25 63.2 1.4 1995 2 US- 26 63.2 1.4 1995 2 US- 27 62.6 1.4 2338 2 US- 28 62.6 1.4 2338 2 US- 29 62.6 1.4 2338 2 US- 30 60.4 1.3 7218 2 US- 31 57.4 1.3 1994 3 US- 35 57.4 1.3 2541 3 US- 35 57.4 1.3 2541 3 US- 36 57.2 1.2 1218 2 US- 37 56.4 1.2 2306 3 US- 40 56.2 1.2 2306 3 US- 41 56.2 1.2 2580 3 US- 42 56.2 1.2 2580 3 US- 44 56.2 1.2 2580 3 US-	90-291-	125-069-	117-844E	25-069-	200	317-844	852	232-463	002-540	200	194-749	094-749	902-540	902-540	200	777-402	077-381	475-515	475-515	0101014	249-585	410-399	050-863	100 000	359-08I	130-114	075-43	71.0/0	
24 66.4 1.5 1588 3 25 63.2 1.4 1995 2 26 63.6 1.4 2338 2 29 62.6 1.4 2338 2 30 61.2 1.4 2338 3 31 58 1.3 7994 3 32 57.4 1.3 7994 3 35 57.4 1.3 1914 3 35 57.4 1.3 2541 3 36 6.2 1.2 2305 3 36 6.2 1.2 2305 3 37 56.2 1.2 2305 3 38 56.2 1.2 2305 3 39 56.2 1.2 2580 4 34 56.2 1.2 2580 4 35 56.2 1.2 2580 4 36 56.2 1.2 2580 4 37 56.2 1.2 2580 4 38 56.2 1.2 2580 4 39 56.2 1.2 2580 4 39 56.2 1.2 2580 4 39 56.2 1.2 2580 4 39 56.2 1.2 2580 4 39 56.2 1.2 2580 4 39 56.2 1.2 2580 4 39 56.2 1.2 2580 4 39 56.2 1.2 2580 4 39 56.2 1.2 2580 4 39 56.2 1.2 2580 4 39 56.2 1.2 2580 4 30 56.2 1.2 2580 4 30 56.2 1.2 2580 4 30 56.2 1.2 2580 4 30 56.2 1.2 2580 4 30 56.2 1.2 2580 4 30 56.2 1.2 2580 4 30 56.2 1.2 2580 4 30 56.2 1.2 2580 4 30 56.2 1.2 2580 4 30 56.2 1.2 2580 4 30 56.2 1.2 2580 4	US-09-4	US-08-4	80	0	5	-08	-09	-08	0			7		-60-SII		12-08-					9		- 1			1	000		
25 66.4 26 63.2 27 623.2 28 63.2 29 62.6 30 62.6 1.4 31 60.2 31 5.8 31 5.4 32 5.4 33 57.4 34 56.4 36 6.4 37 66.4 38 56.4 38 56.4 39 56.4 40 56.2 41 1.2 40 56.2 41 1.2 41 1.2 42 56.2 43 56.2 44 1.2 45 6.2 46 1.2 47 6.2 48 1.2 48 1.2	۳	7	Ċ		Ŋ	Ņ	M	٠	١	ń	4	4	m	~	٠,	~	4	~	ι	n	m	m	~	1	'n	~	r	n	
255 266 275 276 276 276 276 277 277 277 277		1995	1995	100	2338	2338	1852	7218		47.7	1907	1914	2541	2033	0 1	7218	1233	2305	1 (2306	1926	1926	ď	ЭΙ	ഗ	45	1	4	
254 255 266 276 276 276 276 277 277 278 278 279 279 270 270 270 270 270 270 270 270	1.5	4			1.4	1.4	4			1.3	1.3	1.3	1.3		?	1.3	1.2	,	•	7.7	1.2	1.2		7.7	1.2	1.2		1.2	
ANAGGGGGGG	4 9	62.5		7.00	9:29				٠.	80.		57.4	7 7 4		7.7	57.2	76.		ייי מיי	56.4	56.2				56.2	2,47		56.2	
υ. υ υ	2.4	1 6	3 6	97	27	28	9 6	7 0	9	31	.32				35	36	7.		9	39	40	۲,	4 (7 %	43	77	,	45	
								,	ij.						υ											t	C	•	

replanta Tenta Ten

Ticalion US/09205258 Sequence 20 Patent No

ALIGNMENTS

GENERAL INFORMATIC APPLICANT, YOUNG

APPLICANT, YOUNGER, AI.

APPLICANT, YOUNGER, AI.

TITLE OF INVENTION: 207 Human Secreted Proteins
FILE REPRENCE: P8007P1
CURRENT APPLICATION NUMBER: US/09/205,258
CURRENT FILING DATE: 1998-12-04
EARLIER PELING DATE: 1998-06-04
EARLIER FILING DATE: 1998-06-04
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,375
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,880
EARLIER APPLICATION NUMBER: 60/048,896

APPLICATION NUMBER: 60/049,020 FILING DATE: 1997-06-06 APPLICATION NUMBER: 60/048,876 APPLICATION NUMBER: 60/048,895 APPLICATION NUMBER: 60/048,894 APPLICATION NUMBER: 60/048,964 APPLICATION NUMBER: 60/048,884 APPLICATION NUMBER: 60/048,971 FILING DATE: 1997-06-06 1997-06-06 1997-06-06 90-90-4661 1997-06-06 FILING DATE: EARLIER I
FILING DATE: 1997-06-06 APPLICATION NUMBER: 60/048,901 FILING DATE: 1997-06-06 APPLICATION NUMBER: 60/048,899 90-90-1661 EARLIER EARLIER EARLIER EARLIER

	21	3486	3546	Oy 3606 TGGGGTGGGCAGGCCTGGGGTGAAATGAGAAAGGCCCAGAACGTGCAGACTCTGCGGAGGG 3665 Db 481 TGGGGTGGGCAGGCCTGGGGTGAATRAGAAAGGCCCAGAACGTGCAGGTCTGCGGAGGG 540		Oy 3724 AGAIGGCIGAGIGAGGITAIGGGGAGCCIGAGGITTIAIGGCCIGIGIATCCCCTTCT 3783	Oy 3784 CCCGGCCCCAGCCTGCCTCCTGCCGCCTGGCCCAAGGTCTCCTCTGGTCCCTG 3843	OY 3844 TCCCTCTGGTGGTGGGAAGGAAGGAGGAAGGGGTGTAATGGGGCTGGGTTCTGTCT 3903 Db 721 TCCCTCTGGTGGTTGGGATGGAGGGGCAAGGGGTGTAATGGGGCTGGGTTCTGTCT 780	Oy 3904 TCTACAGGCCACCCCGAGGTCCTCAGTGCTTGCCTGGGGACGGAC	Qy 3964 GGTACAGGTTGGGTGGGCCTCCCTGAGGGTCTGGGGTCAGGCTTTGGCCTCTGCTGCTCT 4023 bb 841 GGTACAGGTGGGCCCTCCCTGAGGGTCTGGGGTCAGGCTTTGG-CTCTGCTGCT 899	Qy 4024 CICAGICACCAAGICACCTCCTGAAAAICCAGICCCTTCTTIGGAIGTCCTTGTGAG 4083	A 1084 TCACTCTGGGCTGGCTGTCGTCCTCCTCAGCTTCTTGTTCCTGGGACAAGGGTCAAGC 4143 Db 960 TCACTCTGGGCTGGCTGTCGTCCTCCTCTCTTGTTCCTGGGACAAGGGTCAAGC 1019	QY 4144 CAGGATGGGCCCAGGCNTGGGATCCCCCACCCCAGGACCCCCCCCCC	Qy 4204 GNITTGCGGGGGCAGGAAATGGACTCCTTTTGGGTCCCCGAGGTGGGGTCCCCTC 4263 1,010 CAMPAGGGGCAGGAAATGGACTCCTTTTTGGGTCCCCGAGGTGGGGTCCCCTC 1138	4264		Db 1199 dachfidelfideldechededededededededededechedededededede	Db 1259 CATCTCTCCTCTTGTCCCGAAGATCTGCGCTCTAGTGCCTTTTGAGGGGTTCCCATC 1318 Qy 4444 AICCCTCCTGATATTATAGAAATATTATGCACACTGTTCATGCTTTTACTAATCA 4503	
HIER APPLICATION NUMBER: 60/048,892	LIER FILING DATE: 1997-06-06 LIER APPLICATION WOMBER: 60/048,915 LIER PILING DATE: 1997-06-06 JIER APPLICATION NUMBER: 60/049,019	LIER FILING DATE: 1997-06-06 LIER APPLICATION NUMBER: 60/048,970 LIER APPLICATION NUMBER: 60/048,972	LILER FILLING DATE: 1997-06-06 LILER APPLICATION NUMBER: 60/048,916 LILER PILLING DATE: 1997-06-06 LILER APPLICATION NUMBER: 60/049,373	LIER FILING DAIE: 1997-00-00 LIER PELING DATE: 1997-06-06 LIER APPLICATION WINGER: 60/049,374	LIER FILLING DAIE: 1997-00-00-00-00-00-00-00-00-00-00-00-00-00	LIER FILING DATE: 1997-06 LIER PEDIGATION NUMBER: 60/048,974 LIER APPLICATION NUMBER: 60/048,883	LIER FILLING DATE: 1997-06-06 LIER PILLING DATE: 1997-06-06 LIER APPLICATION WHORER: 60/048,898	LIER FILING DATE: 1997-06-06 LIER PILING DATE: 1997-06-06 LIER APPLICATION NUMBER: 60/048,963	LILER FILLING DAILS: 1997-06-06 LLIER FILLING DATE: 1997-06-06 LLIER APPLICATION NUMBER: 60/048,878	ALIER FILLING DATE: 1997-12-18 ALIER PILLING DATE: 1997-12-18 ALIER PILLING DATE: 1997-12-18 ALIER APPLICATION NUMBER: 60/092,921	RAILER FILLING DALE: 1998-07-30 RAILER FILLING DATE: 1998-07-30 MBER OF SEQ ID NOS: 122	FTWAKE: PACENCIN VET. 2.0 INO 70 IN 1446 YPE: DNA	RGANISM: Homo sapiens 205-258-20 rry Match	tt Local Similarity 38.2%; Pred. No. 18.2%; ches 1385; Conservative— 2; Mismatches 19; Indels 4; Gaps 3; 3126; CGGGGCAGGGCTGTGGGCACCGCCAGGGGCCCCACCTGAGTCACTTTATTGGGTT 3185	1		3246 TGGTTTTGGGGGTTTTCCTGCTGCCAAGGGCTGGACACTGCTGGGGGGCCTGGAAGCC 3305	3306 CCTCCCTTCCTGTCCTTCTGTGGCCTCCCTCATGGGTGCTGCCATCCTTCCT	3366 GAGAGGAAAGCIGGIGGIGGIGGIGGGII I CCCCCCAAAAAAAAAA

```
CATCITITICCCICITIGECCCGAAGAITIGCGCCTITIAGIGCCTITITGAGGGGTICCCAIC 4443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4444 ATCCCTCCCTGATATTGTATTGAAAATATTATGCACACTGTTCATGCTTTTACTAATCAA 4503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCAGCCCTGCATCCTCCGTGCCCTAGACCTGCTCCCCAGAGGGGGGCCTTGACCCACAG 4323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCTACAGGCCACCCCGAGGTCCTCAGTGGTTGCCTGGGGACCGGACGGGGCTCCTGAGG 3963
                                                                                                                                                                                                                                                                          CTCAGTCACCAAGTCACCTCCCTCTGAAAATCCAGTCCCTTTTGGATGTCCTTGTGAG 4083
       CCCTG. 3843
                                                                      TCCCTCTGGGGGTTGGGGGATGGAGCGGCAAGGGGGTGTAATGGGGGCTGGGTTCTGTCT 3903
                                                                                                                                                                                                         GGTACAGGTTGGGTGGGCCCTCCCTGAGGGTCTGGGGTCAGGCTTTGGCCTCTGCTGCCT 4023
                                                                                           TCTACAGGCCACCCCGAGGTCCTCAGTGGTTGCCTGGGGAGCCGGACGGGGCTCCTGAGG 840
                                                                                                                                                                                                                           661 cccseccccasccraccraccraccasccasccascascascracacracarcarcare 720
                                                                                                                                                                                                                                                                                                                                              4084 TCACTCTGGGCCTGGCTGTCGTCCTCCTCAGCTTCTTGTTCCTGGGACAAGGGTCAAGC
                                                                                                                                                                                                                                                                                                                                                                    1079 GCTTTGCGGGGGGGCAGGGCAGAAATGGACTCCTTTTGGGTCCCCCAGGTGGGGTCCCCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GAAGTGTGGTGGCGTGGCAATCAGGGACCCCCAGCTGCCGCAGCCCTGGTTTTTGGCG
                                                                                                                                                                                                                                                                                                 CAGGATGGGCCCAGGCNTGGGATCCCCCAGGACCCCCACAGGCCCCCTCCCTGNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Mang, Tongtong
APPLICANT: Bangur, Chaitanya S.
APPLICANT: Lodes, Michael A.
APPLICANT: Lodes, Michael A.
APPLICANT: Lodes, Michael A.
APPLICANT: Carler, Darrick
APPLICANT: Carler, Darrick
APPLICANT: Retrer, Marion, Jane
APPLICANT: Mannion, Jane
APPLICANT: Fan, Liqun
TITLE OF INVENTION: Charles OF LUNG CANCER
TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
TITLE OF INVENTION: CANCER CANCER
TITLE OF LINGALCANTON HOMBR: USO, 109, 7102, 7105
CURRENT APPLICANTON NUMBER: 2000-10-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1379 TAAACGCTTTATTTAAAGCCAAAAAAAAA 1408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 203, Application US/09702705, Patent No. 6504010, GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                        4144 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                         1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4504
                                                                                                                                                3904
                                                                                                                                                                                                                3964
              3784
                                                                                 3844
                                                                                                             721
                                                                                                                                                                                                                                                   841
                                                                                                                                                                                                                                                                                   4024
                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                               ò
                                                                                                            요
                                                                                                                                                ò
                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3606 TGGGGTGGGCAGGCCTGGAGGTGAAATGAGAAAGGCCCAGAACGTGCAGGTCTGCGGAGGG 3665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAGTCAACACTITICITIGCTCCCTGTTTTCTCTTCTGTGGGATGATCTCAGAGGGGC 3245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3546 TTCAGGCTGGAGCCAGGCTGGGGGGGTGCTGGGAGATGAGATTTAGGGGGTGCCTCA 3605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAAGTGTCCTGAGTGAAGGAGGGGACCCC--ATCCTGGGGATGCTGGGAGTGAGTG 3723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGATGGCTGAGGGTTATGGGGAGCCTGAGGTTTTATGGGCCTGTGTATCCCCTTCT 3783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3126 CGGGGCAGGGCTGTGTGGCACCGCCAGGGGGCCCCACCTGAGTCACTTTATTGGGTT 3185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGGTTTTGGGGTTTTTCCTGCTTGTGCCAAGGGCTGGAACACTGGTGGGGGGGCTGGAAAGCC 3305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGATGGCTGAGTGAGGGTTATGGGGAGCCTGAGGTTTTATGGGCCTGTGTATCCCCTTCT 660
1319 ATCCCTCCTGATATTGTATTGAAAATATTATGCACACTGTTCATGCTTCTACTAATCAA 1378
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 CAGICAACHTICTIGCTCCCTGTTTTCTCTTCTGTGGGATGATCTCAGATGCAGGGGC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 GAGAGGGAGGTGAAAGCTGGTGTGAGCCCAGTGGGTTCCCGCCCACTCACCCAGGAGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121 IGSTITTGGGGTTTTCCTGCTTGTGCCAAGGGCTGGACACTGCTGGGGGGCTGGAAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GAGAGGGAGGTGAAAGCTGGTGTGAGCCCAGTGGGTTCCCGCCCCACTCACCCAGGAGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCTGGGCCAGGACCGGGAAGAAGCACTGCTGCCTCCTGGCCCTGCTCCTTCCGCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 CGGGGCACAGAGGCACCGCCAGGAGCGGGCCCACCAGAGACACTTATAGGSTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 1342.6; DB 3; Length 1446; Pred. No. 4e-276; 2; Mismatches 19; Indels 4;
                                                                                                                                       Sequence 20, Application US/10004860
; Patent No. 6914047
; GRUERAL INFORMATION:
; APPLICAMT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: PZ007P1
; CURRENT APLICATION NUMBER: US/10/004,860
; CURRENT PILING DATE: 2001-12-07
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 1227
; SEQ'IMARE: Patentin Ver. 2.0
; SEQ'ID NO 20.
                                    1379 TAAACGCTTTATTTAAAGCCAAAAAAAAA 1408
                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 29.6%;
Best Local Similarity 98.2%;
Matches 1385; Conservative 2
                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
CORGANISM: Homo sapiens
US-10-004-860-20
                                                                                                                      RESULT 2
US-10-004-860-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                       S 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
```

4383

1138

4263

4143 1019 4203

959

```
GenCore version 5.1.9
Copyright (c) 1993 - 2006 Biocceleration Ltd.
```

OM nucleic - nucleic search, using sw model

Run on:

June 25, 2006, 12:06:30 ; Search time 108 Seconds (without alignments) 10061.783 Million cell updates/sec

1 gggctccctgcacaaatgcg........4tttaaaaaaaaaaaaaaa 4533 US-10-612-318-3 4530 Title: Perfect score: Sequence:

IDENTITY NUC Gapop 10.0 , Gapext 1.0 Scoring table:

.296510 segs, 119862409 residues Searched: Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 10% Maximum Match 100% Listing/frkst 45 summaries

Published Applications NA New:*

| EMA_CELETRA_SIDS3/ptodata/1/pubpna/US09_NEW_PUB.seq:*
| MEMC_CELETRA_SIDS3/ptodata/1/pubpna/US06_NEW_PUB.seq:*
| MEMC_CELETRA_SIDS3/ptodata/1/pubpna/US08_NEW_PUB.seq:*
| MEMC_CELETRA_SIDS3/ptodata/1/pubpna/US08_NEW_PUB.seq:*
| MEMC_CELETRA_SIDS3/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
| MEMC_CELETRA_SIDS3/ptodata/1/pubpna/US10_NEW_PUB.seq:*
| MEMC_CELETRA_SIDS3/ptodata/1/pubpna/US10_NEW_PUB.seq:*
| MEMC_CELETRA_SIDS3/ptodata/1/pubpna/US10_NEW_PUB.seq:*
| MEMC_CELETRA_SIDS3/ptodata/1/pubpna/US10_NEW_PUB.seq:*
| MEMC_CELETRA_SIDS3/ptodata/1/pubpna/US10_NEW_PUB.seq:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description				_	Sequence 12664, A	Sequence 11307, A	63, A			Sequence 12280, A	Sequence 16770, A	_			Sequence 2794, Ap	Sequence 19240, A	Sequence 12085, A	Sequence 1966, Ap	Sequence 29401, A	Sequence 175, App	Sequence 8473, Ap	Sequence 24457, A		Sequence 10706, A	Sequence 1885, Ap
De	O)	O)	CO	CO	ω	(U)	(J)	(U)	O)	U	O)	03	O)	O)	رن	O)	OJ.	رن	U,	0,	O,	O,	0,	υ,	
QI	US-11-301-554-203	US-11-301-554-202	US-11-293-697-763	US-11-293-697-1702	US-10-449-902-12664	US-10-449-902-11307	US-11-257-851A-63	US-10-511-937-2882	US-11-175-714-86	US-10-449-902-12280	US-10-449-902-16770	US-10-449-902-19530	US-10-449-902-11706	US-10-449-902-10050	US-10-449-902-2794	US-10-449-902-19240	US-10-449-902-12085	US-11-293-697-1966	US-10-953-349-29401	US-11-145-307A-175	US-10-449-902-8473	US-10-449-902-24457	US-10-449-902-12529	US-10-449-902-10706	US-11-293-697-1885
3	7	7	7	7	9	9	7	9	7	9	9	9	9	9	9	9	9	7	9	7	9	9	9	9	7
bengtn	713	283	2165	2073	3236	2219	11978	1841	152331	2185	3592	2796	1275	1766	1392	1510	1575	2479	1185	2953	1414	1693	2303	992	1799
Match	14.3	5.2) ₇ .	3.9	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Score	648.8	238.4	214.2	175.8	57.2	56.4	56.2	53.4	53	52.8	51.8	51	50.8	50.6	20	20	20	49.8	49.6	49.6	49.4	49.4	49.4	48.8	48.8
No.	7	7	m	4	ហ	φ	c 7	ω	6	10	11	12	13	14	15	16	17	18	19	20	21	22	c 23	24	25

		13000,	136	il, Appli	1712, A			٠.	٠.	14465	9653,	10215		8250,	17474	21525	25241	944	6, Appli	
acinentes	Seguence	Seguence	Seguence	Sednence	Seguence	Seguence	Seguence	Seguence	Sequence	Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence	
US-10-449-902-25818	US-10-953-349-34319	US-10-449-902-13000	US-10-449-902-13651	US-11-297-660-1	US-10-449-902-1712	US-10-449-902-3157	US-10-449-902-3787	US-10-449-902-2816	US-10-449-902-14165	US-10-449-902-14465	US-10-449-902-9653	US-10-449-902-10215	US-10-953-349-27828	US-10-449-902-8250	US-10-449-902-17474	US-10-449-902-21525	US-10-449-902-25241	US-10-449-902-9444	US-11-071-896-6	
9	9	9	9	7	9	φ	9	9	ė	9	9	9	9	9	9	9	9	9	7	
1108	1135	929	1274	5017	1079	1080	1080	1671	1902	1915	2270	827	1479	1114	1762	2047	2206	2366	3508	
1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	7.7		1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	
48.6	48.6	48.2	48.2	48.2	48	48	48	48	48	48	47.8	47.6	47.6	47.4	47.4	47.4	47.4	47.4	47.4	
26	27	28	29	30	31	35	33	34	35	36	37	38	36	40	41	42	43	4	45	

ALIGNMENTS

Remaining Prior Application data removed - See File Wrapper or PALM. NUMBER OF SEQ ID NOS: 2157
SOFTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 203
LENGTH: 713 APPLICANT: BUELDER, MACRAITE
APPLICANT: BUTHAN, MACRAITE
APPLICANT: Carter, Darrick
APPLICANT: Fanger, Gary R.
APPLICANT: Fanger, Gary R.
APPLICANT: Banger, Thomas S.
APPLICANT: Bangur, Chaitanya S.
APPLICANT: Monabb, Andria
TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 20102-10-10
PRIOR APPLICATION NUMBER: US 10/213, 672
PRIOR APPLICATION NUMBER: US 10/017, 754
PRIOR FILING DATE: 2001-10-29
PRIOR FILING DATE: 2001-10-29
PRIOR FILING DATE: 2001-10-29
PRIOR FILING DATE: 2001-0-10-29
PRIOR FILING DATE: 2001-0-10-29
PRIOR FILING DATE: 2001-0-10-29
PRIOR FILING DATE: 2001-0-10-39
PRIOR FILING DATE: 2000-12-13
PRIOR FILING DATE: 2000-12-13
PRIOR FILING DATE: 2000-12-13
PRIOR FILING DATE: 2000-12-13
PRIOR FILING DATE: 2000-10-30
PRIOR FILING DATE: 2000-00-30
Sequence 203, Application US/11301554 Publication No. US20060088527A1 GENERAL INFORMATION: Wang, Tongtong Watanabe, Yoshihiro Kalos, Michael D. Sleath, Paul R. Johnson, Jeffrey C. Retter, Marc W. APPLICANT: Henderson, Robert A. US-11-301-554-203 APPLICANT: APPLICANT: APPLICANT:

원

õ

g ઠ g ò 셤 ઠે ద ઠે

ઠે

```
CTGTGGTCCAGGATGAGGAGGTGGGGTTGCCCTTTGAGGCTAGCCCTGAGTCACCACCAC 2708
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2470 craccosopacacarcarocracacacosococoracorocrocrocrosocosocos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1;
              APPLICANT: Mediable Andria APPLICANTION: AND DIAGNOSIS OF LUNG CANCER TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER TILE OF INVENTION INUMBER: 2021

CURRENT APPLICATION NUMBER: US 10/283,017

PRIOR FILING DATE: 2002-10-29

PRIOR APPLICATION NUMBER: US 10/017,754

PRIOR APPLICATION NUMBER: US 09/902,941

PRIOR APPLICATION NUMBER: US 09/902,941

PRIOR FILING DATE: 2001-07-29

PRIOR FILING DATE: 2001-07-10

PRIOR FILING DATE: 2001-07-10

PRIOR FILING DATE: 2000-10-13

PRIOR PLILING DATE: 2000-10-06

PRIOR FILING DATE: 2000-10-06

PRIOR PLILING DATE: 2000-09-26

PRIOR PLILING DATE: 2000-09-26

PRIOR PLILING DATE: 2000-09-08

PRIOR PRILING DATE: 2000-09-08

PRIOR PRINCE DATE: 2000-09-08

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 283;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  - See File Wrapper or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5.3%; Score 238.4; DB 7; Length 95.5%; Pred. No. 6.6e-42; tive 0; Mismatches 11; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2709 CTGCGTCCCCGGACGGTGTCACTGAGAT 2736
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: NOVEL FULL LENGTH CONA FILE REFERENCE: H1-A0106 CURRENT APPLICATION NUMBER: US/11/293,697 CURRENT FILING DATE: 2005-12-05 PRIOR APPLICATION NUMBER: US/10/108,260 PRIOR FILING DATE: 2002-03-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 763, Application US/11293697
Publication No. US20060105376A1
GENERAL INFORMATION:
Chaitanya S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 95.53
Matches 256; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Homo sapiens
US-11-301-554-202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-11-293-697-763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 202
LENGTH: 283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAGGGGAAA-CCGCAGGGGGGGGGGGGGGGGGTGGATCCAGATC-TCGGACGCCGTGTACC 1607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1310 GCCGAGCAGGACAAGTGGCAGGCTGCTGCAGGACTGCATCCGGCACTGCAATGGA 1369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1370 ATCCCTGAGGACTCCAAGGTAGAGGGCCCTGCGTTCACAGATGCCATCCGCATGTACCGA 1429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1430 CAGTCCAAGGAGCTGTACGGCACCTGGGAGATGCTGTGTGGGAACGAGGTGCAGATCCTG 1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1130 AACAGTGCAGGCTACAAAAATCCTCACGTCGACCAATACCTGGAGCTCATTGGCAAC 1189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCCTTACCAGGGACCACGGCAAAGTCGGGCAGTGCCCCCATCCTCAAGTGCCCCACACAG 1249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTCCCGCTCATCCTCGCCATCCTTATGCCGCGTCACTACTTCTGCATGATGACAGAA 1309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1010 CACCAGAGACACAACAAGAAGTGGAAAACCGCTTCAGCCTCGTGCCCCACAACTACGGG 1069
                                                                                                                                                                                                                                                                                                                                                                            CTGGTGCTCTACGAAACAAAGCGGCCTATGAGCGGCAGGTCCCACCACGAGCCGTCATC 1129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            950 CTGCTCTGGCGCAAGGTGCCACTGGACGAGCGCATCGTCTTCTCGGGGAACCTCTTCCAG 1009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         300
                                                                                                                                                                                                                                                                                                                                120
                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                        09
                                                                                                                                                                                                                                                                                                          61 CACCAGGAGGACAGCAGCAGAGAGGAGAGAGAGAGACGCTTCAGCCTCGTGCCCCACAACTACGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 TCCTTACCAGGGACCACGCAAAGTCGGGCAGTGCCCCCATCCTCAAGTGCCCCCAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                  2;
                                                                                                 14.3%; Score 648.8; DB 7; Length 713; 98.7%; Pred. No. 8.7e-129; tive 0; Mismatches 7; Indels 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACATGGTGTACGAGCAGGCCAAGG 1631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 202, Application US/11301554 Publication No. US20060088527A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Henderson, Robert A.
APPLICANT: Wang, Tongtong
APPLICANT: Watanabe, Yoshihiro
APPLICANT: Sleath, Paul R.
APPLICANT: Sleath, Paul R.
APPLICANT: Sleath, Paul R.
APPLICANT: Outham, Margarita
APPLICANT: Durham, Margarita
APPLICANT: Carrer, Darrick
APPLICANT: Carrer, Darrick
APPLICANT: Vedvick, Thomas S.
                                                                                                           Query Match
Best Local Similarity 98.7°
Matches 675; Conservative
                               ; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-301-554-203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-11-301-554-202/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1250
                                                                                                                                                                                                                                                                                                                                                                                             1070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1190
```

a ð g 8 셤 ò g

g

셤 Š g ठ

₽

2648

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

										ż													
	Description	AL13.7555 Homo sapi	AY405558 Homo sapi	AY405559 Pan trogl	AK153489 Mus muscu	AK046583 Mus muscu	AK150642 Mus muscu	Y	SOL S	พทร	Mus			AK146953 Mus muscu	AK149818 Mus muscu	AVA05560 Mus muscu	TITOTOCAL TOCOCAL			BQ939703 AGENCOURT	TATIOUNDE COUCCOURT		BOS45457 AGENCOOKI
	Π	HSM802294	4 AV405558	A AV405559	AK153489	AK04683	000000000000000000000000000000000000000	ANTONGE	AK051396	AK152207	AK033735	AK149888	AK170512	DK146953	812021714	OTOCETUS.	4 AY405560	BX383821	BX362527	BO939703		BQ929092	BQ945457
	Length DB	3656 6	2000	2010	7 2626	00000	2000	3631 0	3632 6	3645 6	3660 6	3603 6	3626 6	9 6296	7,000	2227 0	2195 1	985 4	1063 4	000	0 0	954 3	995 3
æ	Match 1	78 4) (0) (7 0		7.00	38.7	38.7	38.7	38.7	38.7	7 86			2/.7	37.2	19.6	0 0		10	18.1	18.0
	Score	2552 4		1.1017	1754.8	1,00	1/53.4	1753.4	1753.4	1753.4	1753 4	1751 A	9 1271	0.1011	0.10/1	1716.6	1686.2	888.2	DEAA		0.000	818.8	814
	Result No.		٦ ،	7 (η•	d' (Λ,	9	7	α	σ	, -	- 1	4 6	77	13	14	15	31.	י נ	1	18	19

. Gen matterial and control

BMS51984 AGENCOURT BQ919097 AGENCOURT BMS52910 AGENCOURT BQ928844 AGENCOURT BG920134 602708919 BQ679480 AGENCOURT	AGENCOURT AGENCOURT HESC4 47 AGENCOURT 602431288 602626782	DV817082 LB01721.C U501198 AGENCOURT X350373 BX350373 D514169 AGENCOURT Q893750 AGENCOURT T334843 602998970	603639905 602626863 AGENCOURT UI-HF-ETO UI-CF-ECI	601592417 UI-CF-ENO AGENCOURT
BM551984 BQ919097 BM552910 BQ928844 BG750134 BQ679480	BQ882950 A BQ878325 A CX870576 H BQ072980 A BG333436 6 BG680041 6	DV817082 BU501198 BX350373 CD514169 BQ893750 BT334843	BM014205 BG680193 BU190217 CF128461 BU688793	BE799575 BM969109 BM450097
	• .			
		01		
BM551984 BQ919097 BM552910 BQ928844 BG750134	BQ882950 BQ878325 CX870576 BQ072980 BG333436	DV817082 DV817082 BV350373 CD514169 BQ893750	BM014205 BM014205 BG680193 BU190217 CF128461	BE799575 BM969109 BM450097
0 m 0 m 0 m		71 m 4 m m c	100mm	2237
1134 981 1118 973 1024	923 923 772 1057 854	948 948 943 943	928 928 908 765	71 837 758 1086
17.7	17.2	16.7 16.7 16.6 16.6	16.4 16.4 16.2	16.0 16.0 16.0
808 802.8 802.4 801.2 789.4	778.2 778.2 775.8 770.4 763.8	761 755.8 754.8 753.6 752	743.4 742.8 741.2 731.6	726.6 726.6 724 723.4
222	30 58 30 30 30 30 30 30 30 30 30 30 30 30 30	33333 36 4 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4 4 3 3 3 4 4 6 9 4 6 9 6 9 6 9 6 9 6 9 6 9 9 9 9	4 4 4 4 2 6 4 3
		U	,	ပပ

ALIGNMENTS

· ·				•
HSNB02294 N Homo sapiens mRNA; CDNA DKF2p434H0820 (from clone DKF2p434H0820). AL137555 AL137555.1 GI:6808242 HTC. HTC. HTC. HTC. HTC. HTC. Homo sapiens (human) Homo sapiens (human) Homo sapiens (human) Homo sapiens			Clone from S. Wiemann, Molecular Genome Analysis, Germany Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de; Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de; sequenced by Medigenomix (Martinsried/Germany) within the CDNA sequencing consortium of the German Genome Project. This clone (DKFZp44H0820) is available at the RZPD beutsches Reseourcenzentrum fuer Genomforschung GmbH in Berlin, Germany. Please contect RZPD for ordering: Please contect RZPD for ordering: Phttp://www.rzpd.de/cgi-bin/products/cl.cgi?CloneID=DKFZp43H0820 Putther information about the clone and the sequencing project is available at http://mips.gsf.de/projects/cdna/.	
RESULT 1 HSM802294 LOCUS DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM	REFERENCE AUTHORS	CONSRTM TITLE JOURNAL	COMMENT	FEATURES SOUFCE

661 GATCTCGGACGCGTGACCATGGTCTACGAGCGAGGCGCGCTTCGAGGGGGGGG		1081 GTCGCTGCGACTGGACTGCGCGTTTTGATGTCTCCAGCACGTCCGTGTTCAA 2068 GCACGAGCCCACATCCACAGGGGAGCAAATGGACAATGCCGTGTATACGTTCAAGAC 2068 GCAGCGAGCCCACATCCACATGGGAGCAAATGGACAATGCCGTGTATACGTTCAAGAC	1141 GCAGCGAGCCAGATCCACATGCGGGAGCAAATGGACAATGCCGTGTATACGTTCAACAATGCCGTGTGCAAGTTCCATCCA	2188 GCGGGTCCTGGAGCGGTGCTGAAAAATACGACTACGACAGCAGCAGCTGCGGAGAGAGA		- 8 -	2428 GCAGGCTGTGAAGGAGGCGGGGGGGGAAGGCACAACCTCTACCGGGACAGGCATGGT 1501 GCAGGCTGTGAAGGAGGCGGGGGGGGGAGGAAGCACCTCTACCGGGACAGGCATGGT 2488 CATGCACAACAGCGACCCCCAACCTGCACCTGCACCTGCACCGGAGGCGCCCCCATCGACTGGGG	1561 CATGCACAACAGGACCCCAACCTGCCTGCCTGGCCGAGGGCGCCCCATCGATGGACTGAGCCCCAACTGAGCCCCAACTGAGCCCCAACTGAGCCCCAAGCAGCGGGGGGGG		
8 8 8 8 8 8 8 8 8 8	7	q ₀	ය රු යු	ò a ò	qa Vo	O O O	oy da o	do yo	y da	<i>&</i>
13656 (202092 (2020	HTTTEDSAGVQTEF" ORIGIN Query Match 78.4%; Score 3553.4; DB 6; Length 3656; Best Local Similarity 99.4%; Pred. No. 0; Matches 3586; Conservative 0; Mismatches 19; Indels 3; Gaps 2;	928 CACGGGGCTGCCGCAGCCCAGCTGCTCTGGCGCAAGGTGCCACTGGACGACGACGTGT 987	988 CTTCTCGGGGAACCTCTTCCAGGACGACAGCAACAGAGAGAACACTLCAG 1947	121 CCTCGTGCCCCACAACTACGGGCTGGTGCTCTACGAAACAAGCGGCCTATGAGCGGCA 180 1108 GGTCCCACCACGAGCGTCATCAACAGTGCAGGCTCACAAATCCTCACGTCGTGCACA 1167 1181 GGTCCCACCACGAGCGTCATCAACAGTGCAGGCTACAAAATCCTCACGTCGTGGACCA 240	ATACCTGGAGCTCATTGGCAACTCCTTACCAGGGACCACGGCAAAGTV ATACCTGGAGCTCATTGGCAACTCCTTACCAGGGACCACGGCAAAGTV	CATCCTCAAGTGCCCCACAGATTCCCGGTCATCGTTGTTTTTTTT	CCCTGCGTTCAC	1408 AGATGCCATCCGCATGTACCGACAGTCCTACGGCACCTGGGAGATGCTGTG 146/		-

```
GenCore version 5.1.9
Copyright (c) 1993 - 2006 Biocceleration Ltd.
```

OM nucleic - nucleic search, using sw model

June 25, 2006, 11:23:00; Search time 2583 Seconds (without alignments) 12235.851 Million cell updates/sec. Run on:

Title: Perfect score:

Sequence:

5244920 seqs, 3486124231 residues IDENTITY NUC Gapop 10.0 , Gapext 1.0 Scoring table:

10489840 Total number of hits satisfying chosen parameters:

Searched:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 10% Maximum Match 100% Listing first 45 summaries

Database :

genesegn2004as:* genesegn2004bs:* geneseqn2003cs:* geneseqn2003ds:* geneseqn2005s:* geneseqn2006s:* neseq 8:* eneseqn1980s:* geneseqn1990s:* geneseqn2000s:* geneseqn2001as: geneseqn2002bs: geneseqn2003as: geneseqn2003bs: geneseqn2001bs geneseqn2002as

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		* 6				
Sco	re	Score Match Length DB	Length	DB	ID	Description
	45.20	1000	4533	12	ADL23467	Adl23467 Human STR
۲ ۱		0 0	200	1 -	APT 2346E	Adl23465 Human STR
4	4430	8.76	/ 4623	7	ADD23403	Mod demail and to the
376	3763.4	83. 1 7	3768	m	AAC81955	AACS1955 numan meg
7	3643 4	80.4	3995	Ŋ	AA168201	Aai68201 Human ost
	3640	80.4	3817	13	ACN38947	Acn38947 Tumour-as
٠ نو	2639 8	80.3	4096	'n	ADL45287	Adl45287 Human ova
, i	EE2 4	4.07	3656	13	ADR24468	Adr24468 Breast ca
10	7 0000		3749	۷	ABO93412	Abg93412 Human cDN
9 6	000	, ,	2000	4	AAH18056	Aah18056 Human cDN
בי ה	200	7.0	1107	* 0	3 A A A A A A A A A A A A A A A A A A A	Aac60052 Human sec
9	1658.6		///	٠,	20000	CADCOCAC
16	58.6		1777	œ	ADA97962	Addy/962 numan sec
4	58.6		1777	æ	ADA43868	Ada43868 Human sec
, ,	9 4		1777	10	ADC20118	Adc20118 Human sec
1 6	2 0 2 2 2 2	3,6.6	1777	10	ADF10578	Adf10578 Human sec
֓֞֜֜֜֜֜֜֜֜֜֜֜֜֜֓֓֓֜֜֜֜֜֓֓֓֓֜֜֜֜֡֡֓֜֜֜֜֡֓֜֜֡֡֡֡֡֡			7 7 7 1		AAV8420	Aav84420 Human sec
7 :	1346.0		7 4 4	1 <	323303	Aba83203 Human sec
7	47.6		0 7 7 7	, 0	ACTO 200	Ach04704 Novel hum
7	1342.6	29.6	0 7 7 7	n c	ACE04.04	Acd44514 Human cDN
,	42	2	1445	7	ACD4#OT#	

Adnis/58 numan con		AAH15758	4	3714	7.7	349.4	45
ų F		AEE04902	14	7243	7.7	351	44
Adylisiz Din encod		ADY17312	14	6919	7.7	351	43
Adyl/310 DNA encod		ADY17310	14	6919	7.7	351	42
- •		AEE04900	14	4951	7.7	351	41
Ċ		ABV28938	Ŋ	4592	7.7	351	40
		ABV23100	Ŋ	4592	7.7	351	38
		AAF54990	4	4475	7.7	351	38
ď		AEG07464	15	2787	7.7	351	37.
		AEE04897	14	3467	8.1	368.4	36
z		AAF64572	5	393	8.3	375	35
Ac162507 Human Col		ACL62507	14	434	9.0	408	8 6
Ad140423 Human ova		ADL40423	2	456	9.5	428.8	33
Human		ADI67404	2	470	10.1	457.4	
		ADI73797	Ŋ	470	10.1	457.4	, r
Human		AAX82084	~	1074	11.8	534	2 6
Human		ADL39034		578	12.3	4 7 7 7	ο σ 1 c
Human	٠.	AAH07715		783	13.8	625	
Н.		ADJ19641	13	713	14.3	648	0 70
Ade72259 Human lun	:	ADE72259	12	713	. 41	0.40	0.00
Adh45722 Human lun		ADH45722	-	713	. 4	0.00	# U
Abx99476 Lung canc		ARX99476	o	7.7	7.7	0.0	57
Acal0525 Human lun		ACA10525		15	7.7		77
CDNA		ARK28196	י ר	1.5	7 7		17
Aaf68285 Human lun.		AAE68285		727	10.7	946	20
Aaa23460 cDNA enco-		777777	י י	7 0	18.3	828	19
Aak56817 Human imm		7182817	<		0	0	. (

ALIGNMENTS

neurodegeneratīve disease; stroke; Parkinson's disease; Alzheimer's disease; Huntington's disease; tumour; cancer; cerebroprotective; vasotropic; antiparkinsonian; neuroprotective; nootropic; anticonvulsant. STR50; gene; ss; short variant; neurotoxic stress; ADL23467 standard; cDNA; 4533 BP. Human STR50 short variant cDNA. (first entry) 01-JUL-2004 ADL23467; Human; RESULT 1 ADL23467

Homo sapiens

/*tag= a /product= "Human STR50 short variant" Location/Qualifiers 644. 3109 Key

US2004068098-A1.

08-APR-2004.

01-JUL-2003; 2003US-00612318.

01-JUL-2002; 2002US-0393251P.

(KACH/) KACHALSKY S G. (FAER/) FAERMAN A. (PELO/) PEL-OR Y.

Kachalsky SG, Faerman A, Pel-Or Y;

WPI; 2004-304622/28. P-PSDB; ADL23468.

New STR50 polynucleotides and polypeptides, useful in diagnosing and

1020

1080

1020

096

900

1140

1140

1200

us-10-612-318-3.rng

```
CGAAAACAAAGCGGCCTATGAGCGGCAGGTCCCACCACGAGCCGTCATCAACAGTGCAGG
                                                                                                                                                                                                                             GATGGAGGTGGGCCCTGAGCTGAAGGCAGAGCTCGGCCCGCGGGTTGAAGGGGAAACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCAGGCCAAGGCGCGCTTCGAGGAGGTGCTGTCCAAGGTGCAGGTGCAGCCGGCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCTCTGGCATCCTTATGCGCGTCACTACTTCTGCATGATGACAGAAGCCGAGCAGAA
                                                                                                                                                                                                                                                                                                                           GCTGTACGCCACCTGGGAGATGCTGTGTGGGAACGAGGTGCAGATCCTGAGCAACCTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCAGECCAAGGCGCGCTTCGAGGAGGTGCTGTCCAAGGTGCAGCTGCAGCTGCAGCCGCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCAGGCCGTCATCCGAACTGACATGGACCAAATTATCACCTCCAAGGAGCACCTTGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTACATCCCATCCTGGAGGCCCTGATGGTCCCCACCAGGCCTTCACTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTCCGGTCCCTTCTTTGGGGCTCTCTCAGGGAGGATGGGGTGGATGGGAAAAAAAC
                    COGGAAGATCCTGACGGAGTTCCTCCAGTTCTATGAAGACCAGTATGGCGTGGCTCTTT
                              CAACAGCATGCGCCATGAGATTGAGGGCACGGGCTGCCGCAGGCCCCAGCTGCTCTGGCG
                                                                     CAACAGCATGCGCCATGAGATTGAGGGCACGGGGCTGCCGCAGGCCCAGCTGCTGCCG
                                                                                                     CAAGGTGCCACTGGACGAGCGCATCGTCTTCTCGGGGAACCTCTTCCAGCACCACGAGGA
                                                                                                                                              CAGCAAGAAGTGGAAAAACCGCTTCAGCCTCGTGCCCCACAACTACGGGCTGGTGCTCTA
                                                                                                                                                        GACCACGGCAAAGTCGGGCAGTGCCCCCATCCTCAAGTGCCCCCACACAGTTCCCGCTCAT
                                                                                                                                                                                                                                                                                                                                                          CAAGTGGCAGGCTGTGCAGGACTGCATCCGGCACTGCAACAATGGAATCCCTGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                   CTCCAAGGTAGAGGGCCCTGCGTTCACAGATGCCATCCGCATGTACCGACAGTCCAAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GATGGAGGAGCTGGGCCTGAGCTGAAGGCAGAGCTCGGCCCGCGGCTGAAGGGGAAACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCAGGAGCGGCAGCGGCAGTGGATCCAGATCTCGGACGCCGTGTACCACATGGTGTACGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1801
                                                                                                                                                                                                                                                                                               1201
                                                                                                                                                                                                                                                                                                                                         1261
                                                                                                                                                                                                                                                                                                                                                              1321
                                                                                                                                                                                                                                                                                                                                                                                 1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1861
                                                                                                        196
                                                                                                                                                                                          1081
                                                                                                                                                                                                              1081
                                                                                                                                                                                                                                    1141
                                                                                                                                                                                                                                                       1141
                                                                                                                                                                                                                                                                                                                     1261
                                                                                                                                                                                                                                                                                                                                                                                                       1381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1861
                                                              901
                                                                                    901
                                                                                                                                                  1021
                                                                                                                                                                                                                                                                            1201
                                                                                                                                                                                                                                                                                                                                                                                                                            1381
                       841
                                          841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Op
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                            q
                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ob
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                      ò
                                     g
                                                         8
                                                                            g
                                                                                                        à
                                                                                                                       Dp
                                                                                                                                                 ð
                                                                                                                                                                   엄
                                                                                                                                                                                         ò
                                                                                                                                                                                                         q
                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                 QQ
                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                            음 장
                                                                                                                                                                                                                                                                                                                                                           \delta
                                                   The invention relates to a purified polynucleotide encoding the human STRSO polypeptide. The purified polypeptide has the biological activity to modulate neurotoxic stress. The polynucleotide and the polypeptide and compositions of the invention are useful in diagnosing and treating neurodegenerative diseases, e.g. stroke, parkinson's disease, Alzheimer's disease, Huntington's disease and tumours. This sequence represents cDNA encoding the human STRSO short variant polypeptide of the invention.
                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                 CCTGCCCAGGAAACTGTGCTCTCAGGAGCGCAGGAGCCAGCTCTCAGCCCCCATCTCCTG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           840
                                                                                                                                                                                                                                              120
                                                                                                                                                                                                                                                                   120
                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                            180
                                                                                                                                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                                                                          300
                                                                                                                                                                                                                                                                                                                                                                                             300
                                                                                                                                                                                                                                                                                                                                                                                                                                                          420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         480
                                                                                                                                                                                                                     09
                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTCAGAGGGTTGCGAGGGCCCAATCGGCACTGTCATCCTGCCCAGGTCTGAGTCACCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTGGTGAGGGGCAGCTGCAGCCCAGCAGGAAACAAAGTCTAGCATGGAAGAGGTGGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGGTGAGGGGCAGCTGCAGCCCAGCAGGAACAAGTCTAGCATGGAAGAGGTGGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTCCGGTCCCTTCTTTTGGGGCTCTCACTCTGGAGGTGGGGTGGGAGGAAAAAAC
                                                                                                                                                                                                                                                                                                    GTGGAGGTGCCCCACCCGGGAGCCCGGGCGCAGCCTCACCGCAGGCTGATTCACAGAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GAGGTGGTGGGCCTGAAACCCCGCCTGGCTTGGCCTTAGAGGAACTGGGAGTGACTGTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGCACTGGCTCAGCAGCAACAGCTCTCAAGGACGTGCTAGGAGTCAGGAACTGGGCCAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTCAGAGGGTTGCGAGGGCCCAATCGGCACTGTCATCCTGCCCAGGCTCTGAGTCACCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disease,
                                                                                                                                                                                                                 CAAGCCAGCTGGGGCCCTGGCACAAGACAGTCCCAGCCTGTTTTCACTGACTTTGCTAAT
                                                                                                                                                                                                                                                           CAAGCCAGCTGGGGCCCTGGCACAAGACAGTCCCAGCCTGTTTTCACTGACTTTGCTAAT
                                                                                                                                                                                                                                                                                       GTCCCTGACCAGTCCTTAACACACAGTGGTCTTTGCTCACCTGCGGCCCCAGCTCTGGGCT
                                                                                                                                                                                                                                                                                                                                          GTCCCTGACCAGTCCTTAACACACAGTGGTCTTTGCTCACCTGCGGCCCAGCTCTGGGCT
                                                                                                                                                                                                                                                                                                                                                                           CTCCCCACAGCATCCTTTGCCTTCCCTCCCATCTTCCTCTGGGCCTTCTCTCTGGCT
                                                                                                                                                                                                                                                                                                                                                                                    GGCACTCACCGTACTCAGGAAATATGTTCTGAATTCAGGATTATCCTCATTACTGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGCTCCCTGCACAAATGCGTTGGGTGATGGGGGCTGAATCCAGCCCACACTGCACTTGC
                                                                                                                                                                                 Gaps
                                                                                                                                                              DB 12; Length 4533;
                                                                                                                                                                                 ·;
    treating neurodegenerative diseases, e.g. stroke, Parkinson's Alzheimer's disease or Huntington's disease and tumors.
                                                                                                                                        Sequence 4533 BP; 879 A; 1371 C; 1416 G; 864 T; 0 U; 3 Other;
                                                                                                                                                                                 Indels
                                                                                                                                                                                 0;
                                                                                                                                                            100.0%; Score 4530;
100.0%; Pred. No. 0;
ive 0; Mismatches
                                   SEQ ID NO 3; 38pp; English
                                                                                                                                                                                   Conservative
                                                                                                                                                                        Best Local Similarity
Matches 4533; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                                                                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           721
                                     Claim 3;
                                                                                                                                                               Match
                                                                                                                                                                Query
                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
     ઠ
                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                    q
                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
```

1380 1380 1440 1440 1500 1500 1560 1560 1620 1620 1680 1680 1740 1740 1800 1800 1860 1860 1920 1920

1320

1260

```
June 25, 2006, 11:28:11; Search time 24735 Seconds (without alignments) 11719.170 Million cell updates/sec
                                                                                                                                                                    12732272
GenCore version 5.1.9
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                               6366136 segs, 31973710525 residues
                                                                                                                                                                                                                                                                                                                                                                                                                              Post-processing: Minimum Match 0%
Maximum Match 100%
Ligting first 45 summaries
                                                                     OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                 IDENTITY_NUC Gapoxt 1.0
                                                                                                                                                                                                                                                                                                                                                                            Minimum DB seq length: 0
Maximum DB seq length: 2000000000
                                                                                                                                                                                 Title:
Perfect score:
                                                                                                                                                                                                                                                    Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Database :
                                                                                                                                                                                                                                                                                                         Searched:
                                                                                                                                                                                                                    Sequence:
                                                                                                              Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

gb_ba:*

						SUMMARIES	
			₩				
Result No.	ult No.	Score	Query Match	Query Match Length DB	DB	. QI	Description
i		3763.4	63	3768	5	AF151783	Homo
	(3643.4	4.08	3995	7	BD016436	BD016436 Gene deri
	۳,	3643.4		3995	ß	AF192911	
t	4	3639.8	80.3	4096	7	CQ412106	
)	٠ ،	3623.2	80.0	3725	7	BD183401	
	۷ (3623.2	80.0	3725	ഗ	AB210016	
		3163.6	69.8	3265	7	BD135233	
	α	3163.6	8.69	3265	7	AX017614	
	σ	3085.4	68.1	4378	Ŋ	BC067366	
	, 5	2983.6	65.9	3749	7	AX399954	
	; ;	2832.4	62.5	2886	ß	BC001979	-
	12	2293.8	50.6	2535	Ŋ	BC110345	
	13	2099.8	46.4	2162	'n	AK025804	
C	14	2042.8	45.1	225370	Ŋ	AL445222	_
,	7	1950 8	43.1	2041	N	BD160048	BD160048 Primer to
	1 1	1050	43.1	2041	c	AX882983	AX882983 Sequence
	1 5	α. Ο Ε	43.1	2041	ı	AK023580	AK023580 Homo sapi
	60	1755	' M	3626	9	BC027843	BC027843 Mus muscu
	ŀ.						
	÷						

AK025951 Homo sapi	BD192925, 207 human	CQ821921 Sequence	AR693816 Sequence		BC104682 Rattus no	CT030569 Xenopus C.	BD270076 Secreted	AL390116 Human DNA	BX511185 Homo sapi	שׁ		AR272491 Sequence	AR276072 Sequence	_	7			AR638166 Sequence	AR694839 Sequence		AX062576 Sequence		BD149707 Primer fo	AX869645 Sequence	AC135968 Homo sapi	CO405853 Semience	1,111,1
AK025951	BD192925	C0821921	AR693816	BC024639	BC104682	CT030569	BD270076	AL390116	BX511185	BC072979	CQ716711	AR272491	AR276072	AR406347	AR440197	AR472355	AR543008	AR638166	AR694839	AR707426	AX062576	AX367493	BD149707	AX869645	AC135968	004000	CQ405853
S	2	~	~	ف	o	Ħ	~	ഗ	17	Ę	7	7	~ ~	(7	7	7	7	~	~	~	7	~	~	~	12	1	~
1597	1446	1446	1446	2480	2448	3861	922	21111	38067	3689	1173	713	713	713	713	713	713	713	713	713	713	713	783	783	63545	1	. 578
33.9	29.6	29.6	29.6	21.4	21.1	19.5	18.7	18.4	18.4	18.2	17.4	14.3	14.3	14.3	14.3	14.3		14.3	14.3	14.3	14.3	14.3	13.8	13.8		1	12.3
1535.8	1342 6	1342.6	1342 6	9 696	957.6	883.8	846	833.6	833.6	824.4	787	648	248	8.8	648 8	648.8	648.8	648	848.0	648	648 8	648.8	625 2	625.2	9 6 7 9		556.4
0	10	3.5	10	3 5	2.5		10	2 7	28	29	30	, -	+ 6	4 6	2 6		2 2	, ,	, 0	9 0	2 4	7 7	1.0	7 5	, ,	r	45
								c)																	נ	
		,																									

າ	
_	
-	
-	
4	
Σ.	
7	
-	
J	
н	
. 7	
7	
⋖.	

AF151783 Homo sapiens MEG3 (MEG3) mRNA, complete cds. AP151783 AF151783.1 GI:14248494 Homo sapiens (human) Homo sapiens	<pre>Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostoml; Mammalia; Eutheria; Buarchontoglires; Primates; Catarrhini; Maninidae; Homo.</pre>	I (Dases I Co 3.0) Miyata, T., Inagi, R., Yasuda, Y. and Kurokawa, K. Homo sapiens meg-3 mRNa, complete cds	Unpublished to 3768) 2 (bases 1 to 3768) Myata,T., Inagi,R., Yasuda,Y. and Kurokawa,K.	Direct Submission Submitted (17-MAY-1999) Institute of Medical Sciences, Department of Internal Medicine, Tokai University School of Medicine, Bohseidai, Isehara 259-1193, Japan	Location/Qualifiers		1. 3768 /aene="MBG3"	53254 Gene-Wmg3" / gene-Wmg3" / codon_start=1 / product="MEG3" / protein_id="AAK57556.1" / protein_id="AAK57556.1" / dh_xref="G1:14248495" / lb_xref="G1:14248495" / lb_xref="G1:142484955" / lb_xref="G1:142484955" / lb_xref="G1:142484955" / lb_xref="G1:1424
RESULT 1 AF151783 LOCUS DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM		REFERENCE AUTHORS TITLE	JOURNAL REFERENCE AUTHORS	TITLE JOURNAL	FEATURES	source	gene	CDS

EALMVPTSQGFTEVRDVFFREVTDMNLAVINEGGIDKLGEYMEKLSRLAYHPLKMQSC YEKMESLRLDGLQQRPDVSSTSVFKQRAQIHAREQMDNAVTTFETLLHQELGKGPTKE ELCKSIQRVLERVLKKYDYDSSSVRKRFFREALLQISIPFLLKKLAPPCKSELPRFQE LIFEDDRAFFILVERTYERVLACTVAROTAGARAAVQRKRINLYRDSMVMHNSDPNLH LLAEGAPIDWGEFYSNSGGGSPSPSTPERATLSKRRRAKQVVSVQDFEVGLPFEA SPESPPRASPDGVTEIRGLLAGGIRPESPPRAGELNGAPAGESPQPKAAPEASSPPA SPLQHLLPGKAVDLGPPKRSDQETGEQVSSPSSHPALHTTTEDSAGVQTEF"	ORIGIN Query Match B3.1%; Score 3763.4; DB 5; Length 3768; Best Local Similarity 99.9%; Pred. NO. 0; Bast Local Similarity 0; Mismatches 1; Indels 0; Gaps 0;	766 CAGGAACTGGGCCAGCTCCGGTCCCTTTTTGGGGCTCTCACTCTGGAG 1 CAGGAACTGGGCCAGCTCCGGTCCCTTTTGGGGCTCTCACTCTGGAG 1 CAGGAACTGGGCCAGCTCCGGTCCCTTTTGGGGCTCTCACTCTGGAG	826	886	OY 946 CCAGCTGCTCTGGCGCAAGGTGCCACTGGACGCGATCGTCTTCTCGGGGAACCTCTT 1005	Oy 1006 CCAGCACCAGGACAGCAAGAAGTGGAGAAACCGCTTCAGCCTCGTGCCCCACAACTA 1065	OY 1066 CGGGCTGGTGCTCTACGAAAACAAAGCGGCCTATGAGCGGCAGGTCCCACCACCACGAGCCGT 1125	Qy 1126 CATCAACAGTGCAGGCTACAAATCCTCACGTGGACCAATACCTGGAGCTCATTGG 1185 Db 361 CATCAACAGTGCAGGCTACAAAATCCTCAGTGGACCAATACCTGGAGCTCATTGG 420	OY 1186 CAACTCCTTACCAGGGACCACGGCAAAGTCGGGCAGTGCCCCCATCCTCAAGTGCCCCAC 1245	OY 1246 ACAGTTCCCGCTCATCCTTGGCATCCTTATGCGCGTCACTACTACTTCTGCATGATGAC 1305	OY 1306 AGAAGCGGAGAAGAAGTGGCAGGCTGTGCTGCAGGACTGCATGCA	Qy 1366 TOGAATCCCTGAGGACTCCAAGGTAGAGGCCCTGCGTTCACAGATGCCATCGCATGTA 1425 Db 601 TGGAATCCCTGAGGACTCCAAGGTAGAGGCCCTGCGTTCACAGATGCCATCCGCATGTA 600	1426	QY 1486 CCTGAGCAACCTGGTGATGGAGGAGCTGGGCCCTGAAGGTGAAGGCAGAGCTCGGCCCGCG 1545	1546	1606

2385 2445 1920 1620 1680 2505 1740 2565 1800 2625 1860 2685 2745 1980 2805 2205 1440 2265 1500 2325 1560 1785 1965 1200 2025 1260 2085 1320 2145 1380 1080 CGGCGGGGGGGGAGCCCCAGCCCCAGCACCCCGGAGTCAGCCACCCTCTCGGAAAAGCG CGCGGTGCAGAGGAAGCACAACCTCTACCGGGACAGCATGGTCATGCACACAGCGACCC GGCTAGCCCTGAGTCACCACCACCTCCCCGGACGGTGTCACTGAGATCCGAGGCCT 2746 GCTGGCCCAAGGTCTGCGGCCTGAGAGCCCCCCCACCAGCCGGCCCCTGCTCAACGGGGC GCTGCAGATCAGCATCCCGTTCCTGCTCAAGAAGCTGGCCCCTACCTGCAAGCTCGGAGCT GAACCATGTCCAGCCCTACATCCCATCCATCCTGGAGGCCCTGATGGTCCCCACCAGCCA 2386 1741 2686 1081 1141 1201 2026 1261 2086 1321 2146 1381 2206 1441 2266 1501 2326 1561 1621 2446 1681 2506 2566 1801 2626 1861 1966 1921 1021 1846 1906 901 1726 961 1786 999 a 8 8 6 B 6 유 상 역 유 8 g 8 임 <u>م</u> ò DP ò g ò q 2 8 2 8 % 8 \$ 8 \$ မ္ပ 2 8 2

OM protein - protein search, using sw model

Run on:

June 24, 2006, 01:56:20; Search time 37.2928 Seconds (without alignments) 1856.571 Million cell updates/sec

Title: Perfect score:

US-10-612-318-4 4139 1 MEEVGGRWWGLKPRLAGLRG......SSHPALHTTTEDSAGVQTEF 791

Scoring table:

Sequence:

650591 seqs, 87530628 residues BLOSUM62 Gapop 10.0 , Gapext 0.5 Searched:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Total number of hits satisfying chosen parameters:

Post-processing: Minimum Match 10% Maximum Match 100% Listing first 45 summaries

Database :

Issued Patents AA:*

Issued Patents AA:*

Issued Celerra SIDS3/ptodata/2/iaa/5 COMB.pep:*

Issued Celerra SIDS3/ptodata/2/iaa/7 COMB.pep:*

Issued Celerra SIDS3/ptodata/2/iaa/7 COMB.pep:*

Issued Celerra SIDS3/ptodata/2/iaa/H COMB.pep:*

Issued Celerra SIDS3/ptodata/2/iaa/R COMB.pep:*

Issued Celerra SIDS3/ptodata/2/iaa/RE COMB.pep:*

Issued Celerra SIDS3/ptodata/2/iaa/RE COMB.pep:*

Issued Celerra SIDS3/ptodata/2/iaa/RE COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	Sequence 1081, Ap	Sequence 9768, Ap	Sequence 2, Appli	7	'n	126	4	٦,	4,	æ	7	1, Ap	154,	Sequence 154, App	Sequence 154, App	Sequence 154, App	Sequence 2, Appli	7	16	Sequence 11417, A	863, 7	6611,	Sequence 911, App	10708	2, 7	Sequence 41, Appl
SUMMERCES	ID	US-09-538-092-1081	US-09-949-016-9768	US-09-080-897-2	US-09-323-735-2	US-08-899-595-3	US-09-538-092-1268	US-09-080-897-4	US-08-899-595-1	US-09-323-735-4	US-09-141-047-8	US-09-095-443-2	US-10-433-794-1	US-09-081-385-154	US-09-752-639-154	US-09-712-813-154	US-09-700-354A-154	US-09-311-236-2	US-09-912-917-2	US-09-902-540-16727	US-09-949-016-11417	US-09-538-092-863	US-09-949-016-6611	US-09-538-092-911	US-09-949-016-10708	PCT-US95-03747-2	US-08-714-741-41
	DB	7	N	_	7	2	~	-	7	~	7	0	٣	7	~	~	7	~	7	~	~	~	7	7	7	Ŋ	7
	Length	2090	2120	1248	1248	1315	864	1255	1255	1255	688	1274	1636	693	693	693	693	983	983	1444	916	915	916	1020	638	912	1231
d	Query Match I	4.3	A.	3.9	3.9	3.8	3.7	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.3	3.3
	Score	176.5	176.5	159.5	159.5	158.5	152	151	151	151	147	147	147	146.5	146.5	146.5	146.5	144	144	144	143.5	142.5	142.5	142.5	139.5	137.5	137.5
	Result No.		2	3	4	S	9	7	80	Q	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

3.3	3.3 3210 2	3.3 603 2	7	7	7	~	134 3.2 641 2 US-09-765-272A-160 Sequence 160, App	~	ď	Ç	3.2 1388 1 US-08-685-576-1	3.2 802 2	3.2 1312 2	3.2 1312 2	3.2 1312 2	~	~	131.5 3.2 885 2 US-09-914-259-10 Sequence 10, Appl
136.5	136.5	136	136	134	134	134	134	134	133	133	132.5	132	132	132	132	132	132	131.5
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

											38;	200	663	247	722	295	782	349	826	407
RESULT 1 US-09-538-092-1081 ; Sequence 1081, Application US/09538092 ; Patent No. 6753314 ; GENERAL INFORMATION:	; AFFILCANT: GIOL, HOLC ; AFFILCANT: Mansfield, Traci A. ; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same ; FILE REPERENCE: 15966-542	; CURRENT APPLICATION NUMBER: US/09/538,092 ; CURRENT FILING DATE: 2000-03-29	APPLICATION NUMBER: FILING DATE: 1999-04	; PRIOR APPLICATION NUMBER: 60/1/8,965 ; PRIOR FILING DATE: 2000-02-01 . WINDED OF SEC IN NOS. 1387	SOFTWARE CuraPatSeqFormatter Version 0.9	; SEQ ID NO 1081 ; LENGTH: 2090) TYPE: PKT ; ORGANISM: Homo sapiens	FEATURE; NAME/KEY: misc_feature . norarrow. (0) _ (0)	\sim $^{-}$	Query Match 4.3%; Score 176.5; DB 2; Length 2090;	LOCAL SIMILATION 17:01, 12CL. 18: 148; CONSERVATIVE 126; Mi	Oy 154 ROVPRAVINSAGYKILITSVDQYLELIGNSLPGTTAKSGSAPILKCP	DD 604 QSAPPMSPFSSASKPAASGPLSHPTPLSAPPSSVPLKSSVLPSPSGRSAQGSSSPVPSMV	OY 201 TOFPLILWHPYARHYYFCMMTEAEQDKWQAVLODCIRHCNNGIPE-DS	DD 664 QKSPRITPPPAAKPGSPQAKSLQ-PAVAEKQGHQWKDSDPVMAGIGEEIAHFQKELBELKA	OY 248 KVEGPAFTDAIRMYROSKELYGTWEMLCGNEVQILSNLVMEELGPELK	DD 723 RISKACFQVGTSEEMKMLRTESDDLHTFLLEIKETTESLHGDISSLKTTLLEGFAGVEEA	Qy 296 AELGPRLKGKPQERQROWIQISDAVY-HMVYEQAKARFEEVLSKVQQVQPAMQAV	Db 783 REQNERNRDSGYLHLLYKRPLDPKSEAQLQEIRRLHQYVKFAVQ	QY 350 IRTDMDQIITSKEHLASKIRAFILPKAEVCVRNHVQPYIPSILEALMVPTSQGFTEVR :

	DD 753 KISANJERJANISTERIANISTERIANISTERIANISTERIANISKVOQVQPAMQAV 349 QY 296 AELGPRIKGKPQERQRQMIQISDAVY-HMVYEQAKARFEEVISKVQQVQPAMQAV 349 QY 296 AELGPRIKGKPQERQRQMIQISDAVY-HMVYEQAKARFEEVISKVQQVQPAMQAV 349 DD 813 REQNERNRDSGYLHLLYKRPLDPKSEAQLQEIRRIHQYVKFAVQ 856	OY 350 IRIDMDQIITSKEHLASKIRAFILPKABVCVRNHVQPYIPSILEALAMVPTSQGFTEVR 407	Qy 408 DVFFKEVTDMMLAVINEGGIDKLGEYMEKLSRLAYHPLKMQSCYEKMESLRLDGLQQRFD 467	468 VSSTSVFKQRAQIHMREQMDNAVYTFETLLHQELGKGPTKEELCKSIQRVLERVLKKYDY : : : : : : : : : : : : : : : : :	Qy 528 DSSSVRKRFFREALLQISIPFILKKLAPTCKSELPRFQELIFEDFAR 574 Qy 528 DSSSVRKRFFREALLQISIPFILKKLAPTCKSELP	575	622	QY 656TLSEKRRAKQVVSVVQDEEVGLPFEASPESPPASPDGVTE 697	OY 698 IR-GLIAQGIRPESPPPA-GPLINGAPAGESPQPKAAPEASSPPASPLOHILLPGKA 751 OY 1193 AKQSSLINSLKPSGPTPASGQLSSGDKASGTAKIETAVTSTPSASGQFSKPFSF9PSGTG 1252	752	RESULT 3 US-09-080-897-2 ; Sequence 2, Application US/09080897 ; Patent No. 5985574	GENERAL INFORMATION: APPLICANT: King, Mary-Claire APPLICANT: Lynch, Eric D. APPLICANT: Lynch, Bric D. APPLICANT: Lee, Ming	2 2	CORRESPONDENCE ADDRESS: CORRESPONDENCE ADDRESS: ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP STREET: 75 DENISE DRIVE	CITY: HILLSBOKOUGH ; STATE: CALIFORNIA ; COUNTRY: USA ; ZIP: 94010		, version #1	CLASSIFICATION:
007RININUTIAL EWIDOHL BOXKKORHLLVPER 854	DVFFKEVTDMNLNVINEGGIDKLGEYMEKLSR	QY 468 VSSTSVFKQRAQIHMREQMDNAVYTPETLIHQELGKGPTKEELCKSIQRVLERVLKKYDY 527	QY 528 DSSSVRKRFFREALLQISIPFLLKKLAPTCKSELPRFQELIFEDFAR 574 Db 931 SLPKVPAKLSPMKQAQLRNFLAKRKTPPVRSTAPASLSRSAFLSQRYYEDL-DEVSS 986	575	1	OY 656TLSEKRRRAKQVVSVVQDEBVGLPFEASPESPPPASPDGVTB 697	698	OY 752 VDLGPPKPSDQETGEQVSSPSSHPALHTTTEDSAG 786 Db 1223 FNPGIITPTPSSNFTAAQGATPSTKESSQPDAFSSGG 1259	SULT 2 -09-949-016	; Sequence 9768, Application US/09949016 ; Patent No. 68123139 ; GENERAL INFORMATION: ; APPLICANT: VENTER, J. Craig et al. ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED ; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF	; FILE REFERENCE: CL001307 ; CURRENT APPLICATION NUMBER: US/09/949,016 ; CURRENT FILING DATE: 2000-04-14 ; PRIOR APPLICATION NUMBER: 60/241,755	PRIOR FILING DATE: 2000-10-20 PRIOR APPLICATION NUMBER: 60/237,768 PRIOR FILING DATE: 2000-10-03 PRIOR APPLICATION NUMBER: 60/231,498		j. LENGATH: 2.120 j. TYPE: PRT j. ORGANISM: Human US-09-949-016-9768	Query Match 4.3%; Score 176.5; DB 2; Length 2120; Best Local Similarity 19.6%; Pred. No. 3.6e-05; Matches 148; Conservative 126; Mismatches 258; Indels 225; Gaps 38;	QY 154 RQVPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAPILKCP 200	201	248

OM protein - protein search, using sw model

June 24, 2006, 01:45:00; Search time 183.029 Seconds (without alignments) 3997.655 Million cell updates/sec Run on:

Title: Perfect score:

US-10-612-318-4 4139 1 MEEVGGRWWGLKPRLAGLRG......SSHPALHTTTEDSAGVQTEF 791 Sequence:

Scoring table: BLOSUM62 Gapop 10.0 , Gapext 0.5

2849598 seqs, 925015592 residues Searched:

2849598 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Lisytns first 45 summaries Unificot 1.2:*
1: uniprot sprot:*
2: uniprot trembl:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	Q96tal homo sapien	homo	homo	7 homo	mus	m 4	mus	mns	mns	mus	mus	mns	mus n		Oggpx6 xenopus lae		-		tetra	homo	homo	homo	mns	u snw		-	_	-		mus mus	Q9esn0 rattus norv
SUMMARIES	ID	NIBL HUMAN	QSVVW6 HUMAN	Q4LE55 HUMAN	QSVVW7 HUMAN	NIBL MOUSE	Q543S7 MOUSE	Q8BQ71_MOUSE	Q3U8I3 MOUSE	Q3UC84 MOUSE	Q3TCV6_MOUSE	Q3UIE4 MOUSE	Q3UDW4 MOUSE	Q8CC78 MOUSE	Q6NWY7 HUMAN	Q6GPX6_XENLA	Q9H8K1_HUMAN	Q4T3H2 TETNG	Q3MHT9 RAT	Q4REA1 TETNG	Q2YD88 HUMAN	Q2TTR2 HUMAN	NIBA HUMAN	Q3UW53_MOUSE	Q6PE79 MOUSE	Q9H6L6 HUMAN	Q5F374 CHICK	Q3TDH5 MOUSE	Q4T8L1 TETNG	Q5RG84 BRARE	Q9ESL7_MOUSE	Q9ESNO_RAT
	DB	-	7	7	7	Н	7	7	7	7	7	7	~	7	~	7	7	7	7	7	7	7	Н	.73	N	0	7	7	7	7	7	7
	Length	733	733	739	746	749	749	749	749	749	749	749	749	206	526	888	396	631	392	700	327	928	928	926	845	201	795	584	277	069	725	736
**	Ouery Marreh I	92.4	3.4	91.6	91.6	83.0	83.0	82.8	82.8	82.7	82.7	82.7	82.6	80.0	62.6	52.9	49.0	46.9	42.6	39.1	34.4	28.1	28.0	28.0	26.2	25.3	25.3	23.0	22.1	20.5	0	19.8
	Score	3824	3824	3792	3792	3433.5		3427.5	3426.5	3424.5	3421.5		3417.5	3310.5	2590	2187.5	2027	1943	1761.5	1617.5	1425	1162	1160	1157	1085.5	1048	1048	951.5	916.5	848	827.5	818.5
	Result No.		7	m	4	5	9	7	80	თ	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

							_						
O4sz26 tetraodon n	homo sapien	rattus norv	homod	mins minschin	minsenm somi	dictyosteli	homo sapien		homo sapien				
048226	086xr4	08n894	Q86xr2	086xr3	Q8teq3	O2n148	07z6h6	. 031468	03rdh6	Q55g75	05tey9	Q4g387	Q3kgz0
Q4SZZ6_TETNG	Q86XR4 HUMAN	Q8N894 HUMAN	Q86XR2 HUMAN	Q86XR3 HUMAN	Q8TEQ3 HUMAN	O2NL48 RAT	Q7Z6H6 HUMAN	03TD68 MOUSE	Q3TOH6 MOUSE	Q55G75_DICDI	Q5TEY9 HUMAN	Q4Q387_LEIMA .	Q3KQZ0_HUMAN
~	7	7	ņ	N	~	7	~	~	7	~	~	~	0
592	999	620	697	651	579	591	596	510	400	528	66	999	2080
18.2	12.8	12.6	12.6	12.5	11.3	10.4	10.2	10.0	7.6	6.2	5.3	4.4	4.3
	'n	5.5	5.	8.5	468	32.5	21.5	15.5	312.5	256	220	181	178.5
753.5	530	523	21	21		4	4	4	'n				1

ALIGNMENTS

```
Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TSKEHLASKIRAFILPKAEVCVRNHVQPYIPSILEALMVPTSQGFTEVRDVFFKBVTDMN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     119 NLFQHQEDSKKWRNRFSLVPHNYGLVLYENKAAYERQVPPRAVINSAGYKILTSVDQYLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LIGNSLPGTTAKSGSAPILKCPTQPPLILWHPYARHYYFCMMTEAEQDKWQAVLQDCIRH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CNNGIPEDSKVEGPAFTDAIRMYRQSKELYGTWEMLCGNEVQILSNLVMEELGPELKAEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GPRLKGKPOERQROWIQISDAVYHMVYEQAKARFEEVLSKVQQVQPAMQAVIRTDMDQII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         U-0.MXY-2005, integrated into UniProtKB/TrEMBL.
10-MXY-2005, sequence version 1.
07-FEB-2006, entry version 6.
07-FUDMP0000022187.
Name=RP11-356B19.6; ORFNames=RP11-356B19.6-003;
Homo sapiens (Human).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Buarchontoglires; Primates; Catarrhini; Hominidae;
601 EKRRRAKQVVSVVQDEEVGLPFEASPESPPPASPDGVTEIRGLLAQGIRPESPPPAGPLL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ..
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 733;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R EMBL, AL44522; CAH72915.1; -; Genomic_DNA.

R EMBL, AL390116; CAH72915.1; -; Genomic_DNA.

R EMBL, AL390116; CAH73085.1; JOINED; Genomic_DNA.

R EMBL, AL45222; CAH73085.1; JOINED; Genomic_DNA.

R EMBL, AL445222; CAH73085.1; JOINED; Genomic_DNA.

R ENSCHOO0136830; Homo sapiens.

R INCERPIC; IPRO11993; PH LYDE.

R PROSITE; PSS0003; PH DOMAIN; 1.

SEQUENCE 733 AA; 82683 MW; 38ELC24CF737F3DB CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (MAY-2005) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted (MAY-2005) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             92.4%; Score 3824; DB 2; L
100.0%; Pred. No. 1.2e-191;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                      733 AA
                                                                                                                                                                                                                                        PRT;
                                                                                                                                                                                                                                      Q5VVW6_HUMAN PRELIMINARY;
Q5VVW6;
                                                                                                                                                  733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 100.
Matches 733; Conservative
                                                                                                                TTTEDSAGVQTEF 791
                                                                                                                                       [1]
NUCLEOTIDE SEQUENCE.
Laird G.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Babbage A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    299
                                                                                                                  179
                                                                                                                                                      721
                                                                                                                                                                                                           2
HUMAN
                                                                                                                                                                                                          RESULT : VAN CONTROL OF CONTROL O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                g
                                                                                                                    ò
                                                                                                                                              g
                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  718
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               299 GPRLKGKPQERQROWIQISDAVYHMVYEQAKARFEEVLSKVQOVQPAMQAVIRTDMDQII 358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TSKEHLASKIRAFILPKAEVCVRNHVQPYIPSILEALMVPTSQGFTEVRDVFFKEVTDMN 418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 179 LIGNSLPGTTAKSGSAPILKCPTQFPLILWHPYARHYYFCMMTEAEQDKWQAVLQDCIRH 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 GPRLKGKPQERQRQNIQISDAVYHMVYEQARARFEEVLSKVQQVQPAMQAVIRTDMDQII 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                       Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms
Distributed under the Creative Commons Attribution-NoDerivs License
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LNVINEGGIDKLGEYMEKLSRLAYHPLKMQSCYEKMESLRLDGLQQRFDVSSTSVFKQRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OIHMREQMDNAVYTFETLLHQELGKGPTKEELCKSIQRVLERVLKKYDYDSSSVRKRFFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BALLQISIPFILKKLAPTCKSELPRFQELIFEDFARFILVENTYEEVVLQTVMKDILQAV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KEAAVORKHNI YRDSMVMHNSDPNI.HLI.AEGAPIDWGEEYSNSGGGGSPSPSTPESATI.S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EKBRRAKQVVSVVQDEBVGLPFBASPESPPPASPDGVTEIRGLLAQGIRPESPPPAGPLL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MGWMGEKTCKILTEFLOFYEDQYGVALFNSMRHEIEGTGLPQAQLLWRKVPLDERIVFSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             119 NLFQHQEDSKKWRNRFSLVPHNYGLVLYENKAAYERQVPPRAVINSAGYKILTSVDQYLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 NLFOHQEDSKKWRNRFSLVPHNYGLVLYENKAAYERQVPRAAVINSAGYKILTSYDQYLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          239 CNNGI PEDSKVEGPAFTDAIRMYRQSKELYGTWEMLCGNEVQILSNLVMEELGPELKAEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    92.4%; Score 3824; DB 1; Length 733; 100.0%; Pred. No. 1.2e-191; Indels 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                               H -> L (in Ref. 1).
P -> L (in Ref. 3).
38EIC24CF737F3DB CRC64;
                   Proc. Natl. Acad. Sci. U.S.A. 101:12130-12135(2004).
-!- SIMTLARITY: Belongs to the Niban family.
-!- SIMILARITY: Contains 1 PH domain.
                                                                                                                                                                                                                                                                                                                              Niban-like protein.
/FTId=PRO_0000213121
                                                                                                                                                                                                                                                                                                                                                                                 Phosphoserine
                                                                                                                                                                                                                                                                                                                                                                                                                     Phosphoserine
                                                                                                                                             EMBL; AF151783; AAK57556.1; -; mRNA.
EMBL; AL137555; CAB70809.1; -; mRNA.
EMBL; AC010199; AAH01979.2; -; mRNA.
PIN; T46394; T46394.
Ensembl; ENSC00000136830; Homo sapiens.
HGNC; HGNC:25.282; C907f88.
InterPro; IPR001849; PH.
InterPro; IPR011993; PH_Cype.
PROSITE; PSS0003; PH_DOMAIN; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                       683 683 Ph
305 305 H
664 664 P
733 AA; 82683 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sest Local Similarity 100.
Matches 733; Conservative
                                                                                                                                                                                                                                                                                                                                                                                   652
679
683
305
664
                                                                                                                                                                                                                                                                                                                                  733
                                                                                                                                                                                                                                                                                                                Phosphorylation
CHAIN 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        59
                                                                                                                                                                                                                                                                                                                                                                                                                         MOD_RES
CONFLICT
                                                                                                                                                                                                                                                                                                                                                                      DOMAIN
MOD_RES
MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                              CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
```

238

180 298

178 120 240 358 300 418

ö

OM protein - protein search, using sw model

June 24, 2006, 01:50:05; Search time 29.9324 Seconds (without alignments) 2542:646 Million cell updates/sec Run on:

US-10-612-318-4 4139 1 MEEVGGRWWGLKPRLAGLRG......SSHPALHTTTEDSAGVQTEF 791 Title: Perfect score: Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

283416 Total number of hits satisfying chosen parameters: 283416 segs, 96216763 residues Searched:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Jashing first 45 summaries

pir2:* pir3:* pir4:* PIR B: *

Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	hypothetical prote	probable transform	neurofilament trip	hypothetical prote	probable involveme	neurofilament trip	dynamin, internal	diaphanous protein	cell-cycle-depende	hypothetical prote	elastic titin - hu	thetical		hypothetical prote		neurofilament trip	protein-tyrosine k	hypothetical prote		neuronal cell cycl	PML protein, splic	dynamin, internal		neurofilament trip	hypothetical prote	calcium channel pr	En/Spm-like transp	glycoprotein A - m	serine/threonine-s
	DB ID	2 T46394	2 \$26058	2 S15762	2 T16038	2 T41643	1 OFMSH	2 A40671	2 T31065	2 PC4035	2 T14756	2 I38346	2 T31555	2 S44382	2 T34081	2 T43168	1 A37221	1 TVRTNU	2 T48502	2 I50479	2 A56677	2 S42518	2 B40671	2 A27864	1 QFHUH	2 T22341	2 829236	2 H84684	2 JE0120	2 S74245
	Length	969	2090	858	1259	1461	1087	864	1255	1017	066	7962	1400	802	1130	1018	1072	1260	871	798	1251	802	851	916	1020	581	2259	268	1282	1388
*	Mareo	87.6	4	3.9	3.9	3.8	3.7	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.3
	Score	3624	176.5	162	161.5	156	152.5	151	151	148	147	147	146.5	145.5	145.5	145	145	145	144.5	144	143.5	142.5	142.5	142.5	142.5	141	139	138.5	138.5	138.5
1,1000	No.	1	2	٣	4	Ŋ	9	7	80	0	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

A-kinase anchor pr	T03094	0	2359	3.2	132	45
hypothetical prote	T00039	7	906	3.5	132	44
	T16270	7	1827	3.2	132.5	43
serine/threonine-s	870633	7	1388	3.5	132.5	42
Bassoon protein -	T42730	7	3942	3.2	133	41
diaphanous protein	T13170	~	1091	3.5	133	40
neurofilament trip	800030	7	849	3.5	133	39
Q.	T34010	~	1482	3.5	133.5	38
hypothetical prote	T00363	7	1234	3.2	133.5	37
	T51947	4	1392	3.5	134	36
hypothetical prote	T33470	~	. 1013	3.2	134	35
hypothetical prote	T16703	7	1974	3.5	134.5	34
D100 protein - rat	S11508	7	. 851	3.2	134.5	33
leukocyte formin p	JC8033	~	1100	3.3	135	32
brevican precursor	A54423	~	912	3.3	137.5	31
hypothetical prote	T19800	7	418	3.3	137.5	30

ALIGNMENTS

		DKF2n434H0820
		nrotoin
RESULT 1	T46394	himorhotice)

hypothetical protein DKFZp434H0820.1 - human (fragment) C;Species: Homo sapiens (man) C;Date: 04-Feb_-2000 #sequence_revision 04-Feb-2000 #text_change 09-Jul-2004

C;Accession: T46394
R;Ottenwaelder, B.; Obermaier, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S. submitted to the Protein Sequence Database, January 2000
A;Reference number: Z23031

A;Status: preliminary
A;Status: preliminary
A;Molcule (rype: mRNA
A;Residues: 1-696 «AAA>
A;Residues: 1-696 «AAA>
A;Cross-references: UNIPROT:Q96TAI; UNIPARC:UPI000016ACCI; EMBL:AL137555
A;Experimental source: adult testis; clone DKFZp434H0820
C;Genetics:
A;Note: DKFZp434H0820.1

		ö	
		80	
		Gar	
. 9		ó	
Length 69		Indels 0; Gaps	
2;	200;	0	
DB	2.4e-	es	
3624;	8	smatch	
Score	Pred), Mi	
87.68;	100.08;	ative (
	hilarity	Conserva	
tch	al Sin	969	
Query Match 87.6%; Score 3624; DB 2; Length 696;	Best Loc	Matches	

٥٨	96	TGLPQAQLLWRKVPLDERIVFSGNLPQHQEDSKKWRNFSLVPHNYGLVLYENKAAYERQ	155
Dp	Н		09
٥'n	156	VPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAPILKCPTQFPLILMHPYARHY	215
Db	61	VPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAPILKCPTQFPLILWHPYARHY	120
. vo	216	YECMMTEAEQDKWQAVLQDCIRHCNNGIPEDSKVEGPAFTDAIRMYRQSKELYGTWEMLC	275
Db	121	YECMMIEAEQDKWQAVLQDCIRHCNNGIPEDSKVEGPAFTDAIRMYRQSKELYGTWEMLC	180
δý	276	GNEVOILSNIVMEELGPELKAELGPRIKGKPQERQROWIQISDAVYHMVYEQAKARFEEV	335
Db	181	GNEVQILSNLVMEELGPELKAELGPRLKGKPQERQRQWIQISDAVYHMVYEQAKARFEEV	240
٥٧	336	LSKVQQVQPAMQAVIRTDMDQIITSKEHLASKIRAFILDFKAEVCVRNHVQPYIPSILEAL	395
Db	241	LSKVQQVQPAMQAVIRTDMDQIITSKEHLASKIRAFILDKAEVCVRNHVQPYIDSILEAL	300
Š	396	MVPTSQGFTEVRDVFKEVTDMNLAVINEGGIDKLGEYMEKLSRLAYHPLKMQSCYEKME	455
Db	301	WVPTSQGFTEVRDVFFKEVTDMNLNVINEGGIDKLGEYMEKLSRLAYHPLKMQSCYEKWE	360
٥٧	456	SLRLDGLQQRFDVSSTSVFKQRAQIHMREQMDNAVYTFETLLHQELGKGPTKEELCKSIQ 515	315
Db	361	SEREDGELOGREDVSSTSVFKQRAQIHMREQMDNAVYTFFTLEHQELGKGFTKEELCKSIQ	120

516 RVLERVLKKYDVDSSSVRKRFFRBALLQISIPFLLKKLAPTCKSELPRFQELIFEDFARF 575

ò

	RESULT 3 S15762 neurofilament triplet M protein - chicken C;Species: Gallus gallus (chicken) C;Species: Gallus gallus (chicken) C;Species: Gallus gallus (chicken) C;Accession: S15762; S08061; A27040 C;Accession: S15762; S08061; A27040 R;Zopf, D.; Dinewa, B.; Betz., H.; Gundelfinger, E.D. Nucleic Acids Res. 18, S21-529, 1990 A;Title: Isolation of the chicken middle-molecular weight neurofilament (NF-M) gene and A;Reference number: S15762; MUID:90174973; PMID:2106668 A;Accession: S15762 A;Status: preliminary A;Molecule type: DNA A;Residues: 19586 < 20P> A;Rose-references: UNIPROT:P16053; UNIPARC:UPI000017137C; EMBL:X17102; NID:g63688; PID A;Cross-references: UNIPROT:P16053; UNIPARC:UPI000017137C; EMBL:X17102; NID:g63688; PID	R; Zopf, D.; Dineva, B.; Betz, H.; Gundelfinger, E. submitted to the EMBL Data Library, November 1989 A; Reference number: S08061 A; Accession: S08061 A; Accession: S08061 A; Accession: S08061 A; Residues: 1-355,368-858 < ZO2> A; Cross-references: UNIPARC:UP100001774FC; EMBL:X17102 A; Fible: identification of gene products expressed in the developing chick visual byste A; Fible: identification of gene products expressed in the developing chick visual byste A; Fible: identification of gene products PMID:3123320	A,Molecule type: mRNA A,Molecule type: mRNA A,Residues: 350-546,'R',548-858 <203> A,Cross-references: UNIPARC:UP1000017137B; GB:X05558; NID:g63685; PIDN:CAA29073.1; PID: C,Genetics: A,Introns: 355/3; 397/2 C;Superfamily: cytoskeletal keratin C;Keywords: coiled coil	Ouery Match Best Local Similarity 21.1%; Pred. No. 0.18; Best Local Similarity 21.1%; Pred. No. 0.18; Matches 136; Conservative 92; Mismatches 260; Indels 156; Gaps 29; Qy 263 QSKELYGTWEMLCGNEVQILSNL	
DD 421 RVLERVLKKYDYDSSSVRKRPFREALLQISIPFLLKKLAPTCKSELPRFQELIFEDFARF 480	RESULT 2 S26058 probable transforming protein (can) - human C;Species: Homo sapiens (man) C;Species: Homo sapiens (man) C;Date: 13-Jan.1995 #sequence_revision 13-Jan.1995 #text_change 09-Jul-2004 C;Accession: S26058 R;von Lindern, M.; Pornerod, M.; van Baal, S.; Jaegle, M.; de Wit, T.; Buijs, A.; Grosve Mol. Cell. Biol. 12, 1687-1697, 1992 A;Title: The translocation (6;9), associated with a specific subtype of acute myeloid le K-can mRNA A;Reference number: S26058; MUID:92195315; PMID:1549122 A;Retus: preliminary A;Molecule type: mRNA A;Residues: 1-2000 cVON>	. # 15 00 mm	Db 664 QKSPRITPPAAKPGSPQÅKSLQ-PAVAËKQGHQWKDSDPVWAGIGEEIAHFQKELEELKA 722 Qy 248 KVEGPAFTDAIRMYRQSKELYGTWEMLCGNEVQILSNLVWEELGPELK 295 Qy 248 KVEGPAFTDAIRMYRQSKELYGTWEMLCGNEVQILSNLVWEELGPELK 295 Db 723 RTSKACFQVGTSEENKMLRTESDDLHTFLLEIKETTESLHGDISSLKTTLLEGFAGVEEA 782 Qy 296 AELGPRLKGKPPQRQWIQISDAVY-HWVYEQAKARPEEVLSKVQCVQPAMQAV 349		

protein - protein search, using sw model ĕ

June 24, 2006, 01:44:35 ; Search time 139.848 Seconds Run on:

(without alignments) 2586.080 Million cell updates/sec

US-10-612-318-4 Title:

4139 1 MEEVGGRWWGLKPRLAGLRG.....SSHPALHTTTEDSAGVQTEF 791 Perfect score:

BLOSUM62 Scoring table:

Sequence:

2589679 segs, 457216429 residues Gapop 10.0 , Gapext 0.5 Searched:

2589679

Minimum DB seq length: 0 Maximum DB seq length: 20000000000

Total number of hits satisfying chosen parameters:

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

A Genèsee 8:* Database

geneseqp2002s:* geneseqp2003as:* geneseqp2003bs:* geneseqp2006s:* geneseqp2004s:* geneseqp1980s:* geneseqp2000s:* geneseqp2001s:* geneseqp2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description				Aab11456 Human Meg		-				Aab94034 Human pro	Ady17313 PRO polyp	Ady17311 PRO polyp	Aee04903 Cancer-as	Aee04901 Cancer-as	Aeg07465 Human aco	Ads10972 Human the		Adb82699 Human pro	Aee04898 Cancer-as	Adm04521 Human pro	Aec87451 Human cDN	Aab42724 Human ORF	Abr83120 Human BCN	
ΩI	ADL23468	ADL23466	AD055194	AAB11456	AAM51209	ABM81075	ABP62933	AAB95443	AAB67451	AAB94034	ADY17313	ADY17311	AEE04903	AEE04901	AEG07465	ADS10972	AAM84036	ADB82699	AEE04898	ADM04521	AEC87451	AAB42724	00158984	2110000
DB.	8	œ	œ	m	4	æ	Ŋ	4	4	4	6	6	0	6	10	œ	4	_	6	7	σ	m	_	-
Length DB	791	821	733	733	746	746	703	396	928	928	928	928	928	928	928	928	246	726	725	383	383	298	202	2
Query Match	100.0	3	92.4	92.1	91.6	91.6	88.5	49.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	27.9	23.9	20.2	20.0	15.9	15.9	14.4		1.01
Score	4139	4114	3824	3813	3792	3792	3662	2027	1160	1160	1160	1160	1160	1160	1160	1156	989.5	838	827.5	658.5	658.5	595		0.740
Result No.	1	7	m	4	5	9	7	80	6	10	1:	12	13	14		16	17	8 -	5	600	2.2	22	1 6	7

	Aec88390 Human cDN	Abr83122 Human BCN	Abr83121 Human BCN.	Add67630 Human Lyl	Abres123 Human BCN	Aam90354 Human imm	Aay21849 Human sig	Adx07781 Cyclin-de	Adx07779 Cyclin-de	Aef58534 Human nuc	Adf09542 Human nuc	_	_	Ado55126 Protein #	Adn23114 Bacterial	Adi82558 Human mod	Aay13464 Human dia	Aaw76734 Human mDi	Adel4368 Human int	Adh61284 INTSIG pr	Aab95397 Human pro	
ADM05460	AEC88390	ABR83122	ABR83121	ADD67630	ABR83123	AAM90354	AAY21849	ADX07781	ADX07779	AEF58534	ADF09542	AAB97070	ADV13344	AD055126	ADN23114	AD182558	AAY13464	AAW76734	ADE14368	ADH61284	AAB95397	
7	6	. 7	7	_	7	4	7	6	6	10	7	4	6	80	80	80		7		8	4	
620	620	697	651	579	579	247	177	2130	2090	2090	2127	2058	31	873	1259	1278	1248	1315	1082	1088	533	
12.6	12.6	12.6	12.5	11.3	11.3	7.9	5.9	4.3	4.3	4.3	4.3	4.2	4.0	6.	9.6	6.	3.9	3.8	3.8	3.8	3.8	
522.5	522.5	519.5	518.5	468	468	329	244	177	176.5	176.5	176.5	175.5	166	162.5	161.5	161	159.5	158.5	156.5	156.5	156	
24	25	26	27	28	53	30	31	32	33	34	3.5	36	37	38	36	40	4	42	4.3	44	45	

ALIGNMENTS

Human, STR50; short variant; neurotoxic stress; neurodegenerative disease; stroke; Parkinson's disease; Alzheimer's disease; Huntington's disease; tumour; cancer; cerebroprotective; vasotropic; antiparkinsonian; neuroprotective; nootropic; anticonvulsant. Human STR50 short variant polypeptide. ADL23468 standard; protein; 791 AA (first entry) 01-JUL-2004 ADL23468; RESULT 1

Homo sapiens.

US2004068098-A1.

08-APR-2004.

01-JUL-2003; 2003US-00612318.

01-JUL-2002; 2002US-0393251P. Ġ (KACH/) KACHALSKY S (FAER/) FAERMAN A. (PELO/) PEL-OR Y.

Kachalsky SG, Faerman A,

Pel-Or Y;

WPI; 2004-304622/28. N-PSDB; ADL23467.

New STR50 polynucleotides and polypeptides, useful in diagnosing and treating neurodegenerative diseases, e.g. stroke, Parkinson's disease, Alzheimer's disease or Huntington's disease and tumors.

Claim 15; SEQ ID NO 4; 38pp; English.

The invention relates to a purified polynucleotide encoding the human STR50 polypeptide. The purified polypeptide has the biological activity to modulate neurotoxit stress. The polynucleotide and the polypeptide and compositions of the invention are useful in diagnoshing and treating neurodegenerative diseases, e.g. stroke, Parkinson's disease, Alzhelmer's

1000年

ខ្លួ

```
Human STR50 long variant polypeptide
                                                                                                                              FAERMAN A.
                                                                                                                                     (PELO/) PEL-OR Y.
                                                                                                                                                                                                                                                                                   Sequence 821 AA;
                                                                 US2004068098-A1
                                                                                                                                                  Kachalsky SG,
                                                     Homo sapiens
                                                                               08-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                              151
                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                              (FAER/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                    Dp
                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
ð
                                                                                                                                                                                                                                                                                                                                          엄
                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                   \delta
                                                                                                                                                                                                                                                                                                                                                                                               Db
                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                         300
                                                                                                                                                                                                                                                                                     540
                                                                                                                                                                                                                                                                                                                              900
                                                                                                                                                                                                                                                                                                                                            999
                                                                                                                                                                                                                                                                                                                                                   RRRAKQVVSVVQDEEVGLPFEASPESPPASPDGVTEIRGLLAQGLRPESPPPAGPLLNG 720
                                                                                                                                                                                                                                                                                                                                                                                     720
                                                ö
                                                                                                                   180
                                                                                                                                                           240
                                                                                                                                                                                                   RLKGKPOEROROWIOISDAVYHMVYEOAKARFEEVLSKVOOVOPAMOAVIRTDMDOIIIS 360
                                                                                                                                                                                                            KEHLASKIRAFILPKAEVCVRNHVQPYIPSILEALMVPTSQGFTEVRDVFFKEVTDMNLN 420
                                                                                                                                                                                                                                             420
                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                 009
                                                                                                                                             240
                                                                                                                                                                                  120
                                                                                                     120
                                                                                                                                180
                                                            9
                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                 the
                                                                                                                                                                                                                                                                                                                         VINEGGIDKLGEYMEKLSRLAYHPLKMQSCYEKMESLRLDGLQQRFDVSSTSVFKQRAQI
                                                                                                                                                                                                                                                                    HMREQMDNAVYTFETLLHQELGKGPTKEELCKSIQRVLERVLKKYDYDSSSVRKRFFREA
                                                                                                                                                                                                                                                                                             LLQISIPFLLKKLAPTCKSELPRFQELIFEDFARFILVENTYEEVVLQTVMKDILQAVKE
                                                                                                                                                                                                                                                                                                                                           AAVQRKHNLYRDSMVMHNSDPNLHLLAEGAPIDWGEEYSNSGGGGSPSPSTPESATLSEK
                                                                                                                                                                                                                                                                                                                                                                               POHOEDSKKWENRFSLYPHNYGLVLYENKAAYEROVPPRAVINSAGYKILTSVDQYLELI
                                                                                                                                             GNSLPGTTAKSGSAPILKCPTQFPLILWHPYARHYYFCWMTEAEQDKWQAVLQDCIRHCN
                                                                                                                                                      NGIPEDSKVEGPAPTDAIRMYRQSKELYGTWEMLCGNEVQILSNLVMEELGPELKAELGP
                                                           1 MEEVGGRWWGLKERLAGLEGTGSDCPALAQQQTALKDVLGVRNWASSGPFLLGLSLWRWG
                                                                      WMGEKTGKILTEFLQFYEDQYGVALFNSMRHEIEGTGLPQAQLLWRKVPLDERIVFSGNL
                                                                                                                          Gaps
 disease, Huntington's disease and tumours. This sequence represents human STR50 short variant polypeptide of the invention.
                                                0
                                  Length 791;
                                                Indels
                                                 ö
                                    8;
                                    DB
                                    Score 4139;
Pred. No. 0;
                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ä.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 821
                                                  ;
0
                                    100.0%;
100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                  TEDSAGVQTEF 791
                                                                                                                                                                                                                                                                                                                                                                                                                                              791
                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                         |||||||||||||||||||||TEDSAGVQTEF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard;
                                           Similarity
                         AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-JUL-2004
                         Sequence 791
                                       Ma.
Local Si...
791;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADL23466;
                                                                                                                                                                                                                                                                                                                                                                            661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADL23466
                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                   541
                                                                                                                                                                                                                                                                                                                                                601
                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                   781
                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                         301
                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                    361
                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                      541
                                                                                                                                     121
                                                                                                                      121
                                                                                                                                                                              241
                                                                                            61
                                                                                                        61
                                                                                                                                                   181
                                      Query Match
                                                                                                                                                                181
                                              Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADL23466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HXXXI
                                                                                                                                                                                                                                                                                                                                  qq
                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                          임
                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                      q
                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
```

Š

임 ò g ò g ò 요 ò

임 ò

ઠે

g

셤 ò g ò

ਨੇ

```
390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a purified polynucleotide encoding the human STR50 polypeptide. The purified polypeptide has the biological activity to modulate neurotoxic stress. The polynucleotide and the polypeptide and compositions of the invention are useful in diagnosing and treating neurodegenerative diseases, e.g. stroke, Parkinson's disease, Alzheimer's disease, Huntington's disease and tumours. This sequence represents the human STR50 long variant polypeptide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                180
Human; STRSO; long variant; neurotoxic stress; neurodegenerative disease; stroke; Parkinson's disease; Alabeimer's disease; Huntington's disease; tumour; cancer; cerebroprotective; vasotropic; antiparkinsonian; neuroprotective; nootropic; anticonvulsant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RFEEVLSKVQQVQPAMQAVIRTDMDQIITSKEHLASKIRAFILPRAEVCVRNHVQPYIPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AYERQYPPRAVINSAGYKILTSVDQYLELIGNSLPGTTAKSGSAPILKCPTQFPLILWHP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WEMLCGNEVOILSNLVMEELGPELKAELGPRLKGKPQERQRQWIQISDAVYHMVYEQAKA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MEBVGGRWWGLKPRLAGLRGTGSDCPALAQQQTALKDVLGVRNWASSGPFLLGLSLWRMG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              YARHYYFCMMTEABQDKWQAVLQDCIRHCNNGIPEDSKVEGPAFTDAIRMYRQSKELYGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -----EKTGKILTEFLQFYEDQYGVALFNSMR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       91 HEIEGTGLPOAQLLWRKVPLDERIVFSGNLFQHQEDSKKWRNRFSLVPHNYGLVLYENKA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New STR50 polynucleotides and polypeptides, useful in diagnosing and treating neurodegenerative diseases, e.g. stroke, Parkinson's disease, Alzheimer's disease or Huntington's disease and tumors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 821;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99.4%; Score 4114; DB 8; 96.3%; Pred. No. 1.3e-316; iive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 14; SEQ ID NO 2; 38pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                     Υ,
                                                                                                                                                                                                                                                                                                                                                                                                                     Pel-Or
                                                                                                                                                                                                                                                                                         01-JUL-2002; 2002US-0393251P.
                                                                                                                                                                                                                                              01-JUL-2003; 2003US-00612318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 96.3
Matches 791; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                          Faerman A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-304622/28.
N-PSDB; ADL23465.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 WMG-----
                                                                                                                                                                                                                                                                                                                                    (KACH/) KACHALSKY S
```